CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, July 1, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(*denotes that this work is advertised in Engineering News.)

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids. close.	Work.	Place.	See issue.
7-10	Air compressors, Wash.,	D. C.(S)	6-17
7-10	Turbo-alternators,	New York.(S)	6-17
7-10	Power plant piping,	Boston, Mass. ....(S)	6-17
7-10	Elec. equip.,	Phila., Pa.....(S)	6-17
7-10	Power plant equip.,	Bremerton, Wash. ....(S)	6-17
7-10	Boilers, etc.,	Vallejo, Cal...(S)	6-17
7-10	Tower, tank, etc.,	Newman, Cal. (S)	7- 1
7-14	Elec. equip.,	New York.....	7- 1
7-15	Building,	Houston, Tex..(P. & S.)	6-24
7-15*	Dredging,	Buffalo, N. Y....(S.)	6-17
7-15	Ditches,	Orlando, Fla.....(S.)	6-24
7-16	Elec. equip.,	Delaware, Ohio.....	7- 1
7-24	Engines, etc.,	Phila, Pa....(S.)	6-24
7-24	Pavements,	Boston, Mass....(S)	7- 1
7-30	Wasteway,	Sunnyside, Wash..(S)	7- 1
8- 2*	Generating station,	Winnipeg, Man. .....(P. & S.)	6-10

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

7- 2 Wiring, Indianapolis, Ind..... 7- 1
7- 3 Boilers, Warrensville, Ohio..... 7- 1
7- 6 Transformer stations, Niagara Falls, Ont 7- 1
7- 6 Generator, Buffalo, N. Y..... 7- 1
7- 6 Power, Ft. Douglas, Utah..... 6-24
7- 6 Elec. equipment, New York..... 6-24
7- 7 Lamps, New York 6-24
7-10 Elec. motor, etc., La Fayette, Ind. 7- 1
7-10 Power plant equip., Bremerton, Wash. 6-17
7-10 Boilers, etc., Vallejo, Cal..... 6-17
7-10 Elec. equip., Philadelphia, Pa... 6-17
7-10 Power plant piping, Boston, Mass. 6-17
7-10 Turbo-alternators, New York....6-17
7-24 Engines, etc., Philadelphia, Pa.. 6-24
8- 2*Generating station, Winnipeg, Man. 6-10

BRIDGES.

7- 2 Bridge, Topeka, Kan..... 6-24
7- 2 Bridge floors, Akron, Ohio..... 7- 1
7- 3 Bridge repair, Independence, La. 7- 1
7- 3 Bridge, Arnprior, Ont..... 6-24
7- 3 Bridge, Piggott, Ark 6-10
7- 5 Bridge, West Point, Miss..... 6-24
7- 5 Bridge, Yazoo City, Miss..... 7- 1
7- 5 Bridge, Grenada, Miss..... 7- 1
7- 5 Bridges, Bluffton, Ind..... 7- 1
7- 6 Bridge, Yorkville, S. C..... 7- 1
7- 6 Bridges, Centralia, Wash..... 7- 1
7- 7 Bridges, Washington, Pa..... 7- 1
7- 7 Bridge abutments, Monticello, Ind 7- 1
7- 7 Bridge, Spokane, Wash..... 7- 1
7- 7 Bridge work, Logansport, Ind.... 6-24
7- 8 Superstructure, Barboursville, W. Va. 6-17
7- 8 Superstructure, Minneapolis, Minn..... 6-17
7- 8 Bridges, Plankinton, S. Dak..... 7- 1
7- 9 Bridge work, Butler, Pa..... 7- 1
7- 9 Bridge approaches, Metapedia, Que 6-24
7-10 Bridge, Eden, Me..... 7- 1
7-10 Bridges, Leesburg, Va..... 7- 1
7-10 Bridge, Shelbyville, Ind..... 6-24
7-10 Bridge, Hailey, Idaho..... 5-20
7-13 Bridges, Frederick, Okla..... 7- 1
7-14* Bridge work, Chicago, Ill..... 7- 1
7-14 Bridge, Red Wing, Minn..... 7- 1
7-14 Bridge, Danville, Ill..... 6-24
7-16* Bridge removal, Bellingham, Wash 7- 1
7-18 Bridge, Los Angeles, Cal..... 6-24
7-19 Bridge work, Columbus, Ohio..... 7- 1
7-20 Bridge, Cambridge, Ohio..... 6-24
7-27* Bridge, Clinton, Me..... 7- 1

BUILDINGS.

7- 2 Armories, New York..... 6-24
7- 2 Schools, Indianapolis, Ind..... 6-24
7- 2 Building, New York..... 6-24
7- 2 School, Indianapolis, Ind..... 6-17
7- 6 Hospital, New York..... 7- 1
7- 7 Repairing heating plant, New York 7- 1
7- 8 Industrial bldg., New York..... 7- 1
7- 8 Roofs, New York 7- 1
7-10 Hospital, Omaha, Neb..... 7- 1
7-12* Post-office, Winchester, Va.... 6-10
7-12 School, St. Paul, Minn..... 6-17
7-13 Barracks, etc., Nat. Soldiers' Home, Va 6-24
7-14 Post-office, etc., Paducah, Ky.... 6-17
7-15* Buildings, China (Foreign)..... 5-27
7-15* Post-office, etc., Newbern, N. C. 6-10
7-16* Post-office, Corsicana, Tex..... 6- 3
7-16 Armory, New York 7- 1
7-16 Court-house, New London, Conn.. 7- 1
7-17 Home, Marysville, Ohio 7- 1
7-21* Post-office, Shenandoah, Iowa... 6-24
7-24 Quarters, etc., Annapolis, Md.... 7- 1
7-24 Building, New York..... 7- 1
7-26* Post-office, Platteville, Wis..... 6-24
7-27 Post-office, Owensboro, Ky..... 6-24
7-28 Masonic temple, Sharon, Pa..... 6-17
7-28 Post-office, Hudson, N. Y..... 7- 1
7-29* Post-office, Belleville, Ill..... 7- 1
8- 3 Post-office, Council Bluffs, Ia.... 7- 1
8- 4* Post-office, Bowling Green, Ky.. 7- 1

WATER-WORKS.

7- 2 Water main, Rockport, Ohio..... 6-24
7- 2 Water-works, North Battleford, Sask 6-24
7- 2 Pumping engines, Carthage, Mo.. 6-24
7- 2* Dams, etc., Fort Meade, S. Dak. 6- 3
7- 5 Water-mains, etc., Carthage, Mo. 6-24
7- 5 Water main extention, Spooner, Wis 7- 1
7- 5 Water-works, Gregory, S. Dak... 7- 1
7- 6 Pump, Millvale, Pa..... 6-24
7- 7 Water-works, Woodward, Iowa... 6-24
7- 7 Reservoir, etc., Gowanda, N. Y.. 6-24
7- 8* Pumping engine, etc., Newport, Ky 6-24
7- 9 Water-pipe, West Carthage, N. Y 6-17
7-10* Wasteway, Sunnyside, Wash..... 5-27
7-10 Water system, Logan, Ohio..... 7- 1
7-10* Tower, tank, etc., Newman, Cal. 7- 1
7-14 C.-I. pipe, etc., Moultrie, Ga.... 6-24
7-14 Pumps, New York..... 6-24
7-14 Water mains, Brooklyn, N. Y.... 6-24
7-15* Water-works, Delta, Ohio 6-24
7-19 Water system, Madera, Cal..... 7- 1
7-20 Pumps, New York..... 7- 1
7-26* Filter plant, Burlington, N. J... 6-24
7-30 Wasteway, Sunnyside, Wash..... 7- 1

SEWERS.

7- 2 Sewer, Troy, N. Y..... 7- 1
7- 2 Sewer, Rutherford, N. J..... 7- 1
7- 2* Sewer, Louisville, Ky..... 6- 3
7- 2 Sewer, Toledo, Ohio..... 6-24
7- 2 Sewers, Liberty, Mo..... 6-24
7- 2 Sewers, Salt Lake City, Utah... 6-24
7- 2* Sewer, Louisville, Ky. 6-17
7- 5 Sewer system, Rugby, N. Dak... 7- 1
7- 6 Sewers, Winthrop, Mass..... 7- 1
7- 6 Sewers, New York..... 7- 1
7- 6 Sewers, New Brighton, N. Y..... 7- 6
7- 6 Sewer, Trenton, N. J..... 7- 1
7- 6 Sewer material, Moultrie, Ga.... 6-24
7- 6 Sewers, Jackson, Ohio 6-24
7- 6 Sewer, Glendive, Mont. 6-24
7- 6 Sewerage system, Bridgeville, Del. 6-24
7- 7 Sewer, Kokomo, Ind..... 7- 1
7- 7 Sewer, Lake City, Iowa..... 7- 1
7- 8 Sewer, New York 7- 1
7- 8 Sewers, Hamilton, Ohio..... 7- 1
7- 9* Sewer, Louisville, Ky. 6-17
7-10* Sewers, Albuquerque, N. Mex.... 5-27
7-16* Sewer outlet, Fort Hancock, N. J. 6-24
7-16 Sewer extension, Kokomo, Ind.... 7- 1
7-17 Sewerage connections, Oxford, Ohio 7- 1
7-20 Sewer system, Shelbyville, Ind.. 7- 1

STREETS AND ROADS.

7- 2 Macadam road, Morocco, Ind.... 6-24
7- 2 Macadam, Concord, N. H..... 6-24
7- 2 Grading, etc., Paulding, Ohio... 6-24
7- 2 Paving, Westerville, Ohio..... 6-24
7- 5 Roads, Crown Point, Ind..... 6-24
7- 5 Road, Williamsport, Ind..... 6-24
7- 5 Roads, Columbus, Ind. 6-17
7- 5 Roads, Vernon, Ind. 6-17
7- 5 Sidewalks, Austell, Ga..... 7- 1
7- 5 Paving, etc., Oklahoma City, Okla 7- 1
7- 6 Surfacing, Tampa, Fla..... 7- 1
7- 6 Paving, Akron, Ohio..... 7- 1
7- 6 Macadam, Boston, Mass..... 7- 1
7- 6 Regulating, New York, N. Y..... 7- 1
7- 6 Paving, etc., Trenton, N. J..... 7- 1
7- 6 Grading, etc., McKeesport, Pa... 7- 1
7- 6 Sidewalks, etc., Rapid City, S. Dak 7- 1
7- 6 Paving, Davenport, Iowa..... 7- 1
7- 6 Road work, Hartford, Conn..... 7- 1
7- 6* Pavement, etc., Grinnell, Iowa... 7- 1
7- 6 Road, Versailles, Ind. 6-17
7- 6 Road, Monticello, Ind. 6-17
7- 6 Roads, Vincennes, Ind. 6-17
7- 6 Roads, Rushville, Ind. 6-17
7- 6 Road, Morocco, Ind 6-17
7- 6* Paving, Defiance, Ohio..... 6-24
7- 6* Repaving, Bayonne, N. J..... 6-24
7- 6 Grading, Jacksonville, Fla..... 6-24
7- 6 Road, Xenia, Ohio..... 6-24
7- 6 Pavement, Mishawaka, Ind..... 6-24
7- 6 Roads, Rockville, Ind..... 6-24
7- 6 Road, Madison, Ind..... 6-24
7- 6 Roads, Petersburg, Ind..... 6-24
7- 6 Road, Bloomfield, Ind..... 6-24
7- 6* Paving, etc., Leechburg, Pa..... 6-24
7- 7 Regulating, etc., Brooklyn, N. Y. 6-24
7- 7 Paving, Oneonta, N. Y..... 6-24
7- 7 Street impvt., East St. Louis, Ill. 7- 1
7- 7 Paving, etc., Thomas, W. Va... 7- 1
7- 7 Repaving, etc., Buffalo, N. Y..... 7- 1
7- 7 Grading, etc., Atlantic City, N. J 7- 1
7- 7* Paving, Grand Island, Neb..... 7- 1
7- 8 Paving, Hicksville, Ohio..... 7- 1
7- 8 Plank roads, Fort Pickens, Fla.. 7- 1
7- 8 Gravel, Concord, N. H..... 7- 1
7- 8* Grading, etc., Newark, N. J... 6-24
7- 8 Regulating, etc., Brooklyn, N. Y. 6-24
7- 8 Roads, Fort Barrancas, Fla.... 6-17
7- 9 Road impvt., Cincinnati, Ohio.... 7- 1
7- 9 Road, New Middletown, Ohio..... 7- 1
7- 9 Sidewalks, etc., Salt Lake City, Utah 7- 1
7- 9* Paving brick, Bridgeport, Conn.. 7- 1
7- 9* Pavement, Watertown, N. Y..... 7- 1
7- 9 Road, Kokomo, Ind..... 6-24
7- 9* Stone road, Elizabeth, N. J..... 6-24
7-10* Street impvt., Dalton, Ohio..... 6-17
7-12* Road, Camden, N. J..... 6-24
7-12 Road, Jeffersonville, Ind..... 6-24
7-12* Paving, Newburgh, N. Y..... 6-24
7-12 Road, Ada, Minn..... 7- 1
7-12 Road, Brazil, Ind..... 7- 1
7-12 Grading, etc., Glencoe, Minn..... 7- 1
7-12* Paving, etc., Dover, Del..... 7- 1
7-12 Pavement, Upper Alton, Ill..... 7- 1
7-13 Road, Kokomo, Ind..... 7- 1
7-14* Road, Freehold, N. J..... 6-24
7-14 Street impvt., Piqua, Ohio..... 7- 1
7-14* Paving, etc., Catskill, N. Y..... 7- 1
7-15 Roads, Huntington, Ind..... 6-24
7-15 Walks, Fort Riley, Kan..... 6-24
7-17* Paving, Orrville, Ohio 6-24
7-17 Roads, Scottsburg, Ind..... 7- 1
7-19 Roads, Bedford, Ind..... 7- 1
7-24 Pavements, Boston, Mass..... 7- 1
7-26* Pavement, Kenova, W. Va..... 7- 1
7-31* Sidewalk, etc., Galveston, Tex.... 7- 1

MISCELLANEOUS.

At once. Earth work, excav., etc., Denver, Colo. 7- 1
7- 2 Dredging, Washington, D. C..... 6-10
7- 2 Dock, dredging, Two Rivers, Wis. 6-24
7- 2 Sand, cement, Leavenworth, Kan. 7- 1
7- 3 Ditch, Ft. Wayne, Ind..... 7- 1
7- 6 Drain, Des Moines, Iowa 6-17
7- 6* Coal, New York 6-24
7- 6* Drainage, Hasbrouck Heights, N. J. 6-24
7- 7 Ditch, De Smet, S. Dak..... 7- 1
7- 7 Dredge, Quincy, Ill..... 7- 1
7- 7 Fire engine, Wash., D. C..... 7- 1
7- 7 Rubber hose, New York..... 7- 1
7- 8 Ditch, Des Moines, Iowa 7- 1
7- 8 Ditch, Crookston, Minn..... 7- 1
7- 8 Iron railings, New York..... 7- 1
7- 8 Sprinkling oil, New York..... 7- 1
7- 8 Dredging, Wilmington, Del..... 6-17
7- 9 Drilling machines, Transvaal (Foreign) 5-27
7- 9 Wharf, Ft. Morgan, Ala..... 7- 1
7-10 Air compressors, Washington, D. C. 6-17
7-12 Dredging, Detroit, Mich..... 7- 1
7-13* Barge canal, Albany, N. Y..... 6-24
7-14* Hydraulic jacks, Chicago, Ill..... 7- 1
7-14 Ballast, Ft. Leavenworth, Kan.. 7- 1
7-15 Sprinkling oil, New York..... 7- 1
7-15* Dredging, Buffalo, N. Y..... 6-17
7-15 Ditches, Orlando, Fla..... 6-24
7-21 R. R. bridge, etc., Ohio (Rys.)... 7- 1
7-22* Parade Ground fill, Fort Monroe Va. 6-24
7-26* Dredging, Detroit, Mich..... 7- 1
7-28* Lock pit, Detroit, Mich..... 7- 1
7-31* Dredging, Galveston, Tex..... 7- 1
8-18 Battleships, Washington, D. C... 6-24

EXAMINATIONS.

7- 8 Aid, Washington, D. C..... 6-24
7-14 Lab. Helper, Wash., D. C..... 7- 1
7-14 Draftsmen, Washington, D. C.... 6-24
7-14 Arch. Draftsman, Wash., D. C... 6-24
7-21 Engr., Washington, D. C..... 6-24
7-21 Designer, Philippines..... 7- 1
8- 3 Asst. Engr., New York, N. Y.... 6-24

RAILWAYS.

(* denotes that this work is advertised in Engineering News.)

ADA TERMINAL RY.—Contract has been given to J. R. ALEY for building this terminal line from the Oklahoma Central Ry. into the city of Ada, Okla. D. Carter and G. W. Reder, of Pursell, Okla., are interested.

BELLINGHAM BAY & BRITISH COLUMBIA.—H. B. Paige, Ch. Engr., Bellingham, Wash., advises us that contract for 1½ miles of trestle has been let to GOERIG & RYDSTROM, Seattle, Wash., and contract for 4½ miles of grading has been awarded to CHAS. E. LIND, Bellingham, in connection with proposed 6-mile belt line around the water front at Bellingham. Right-of-way and capital are obtained and surveys are made. H. H. Taylor is Pres., Mills Bldg., San Francisco. Noted on June 3.

CHICAGO, DE KALB & WESTERN.—Incorporated in Illinois to build a railroad from Chicago to Rock Island. Principal office, Chicago. Capital stock, $25,000. Incorporators and first Board of Directors: Newton J. Taylor, of Elgin; John E. Pearce, Lee D. Grier, Frederick W. Krengel and Osman F. Cole, all of Chicago.

CUMBERLAND & NORTHWESTERN.—We are officially advised that contracts will be let soon for construction of this railway. As recently noted, this company has been incorporated in Kentucky to build 75 miles of line through coal and timber lands from Artemus to Beattyville, Ky. The incorporators include S. P. Condon, F. S. Mead, E. L. Thomas and J. H. Graham, of Knoxville, Tenn.; B. C. Milner, of Louisville, Ky.; C. B. Lytle and W. O. Gloster, of Manchester, Ky. Mr. Graham is Pres., Mr. Condon, Vice-Pres. and Mr. Thomas, Secy. The company is authorized to issue securities to the amount of $3,000,000, the capital being $100,000. Preliminary survey is made and about 60% of right-of-way secured. Capital for construction is practically secured. Work will be mostly side hill construction in rock and tunnels.

DERMA, PITTSBORO & CALHOUN COUNTY.—Chartered in Mississippi to build a line from Derma, on the Okolona branch of the Southern Railway, to Pittsboro, about ten miles northward. J. C. Kincannon, of Tupelo; S. H. Lawrence and J. A. Harrison, of Derma, and others, are interested.

HOUSTON, FOSTORIA & NORTHERN.—Incorporated in Texas with $50,000 capital. Headquarters will be at Fostoria. This company will build a line from Midline, where connection is to be made with the Houston, East & West Texas Ry. north via Fostoria, on the Gulf, Colorado & Santa Fe Ry., and San Jacinto, to Cold Springs, thence west to a connection with the International & Great Northern R. R. near Elmina, 50 miles. The line from Midline, north to San Jacinto, 19 miles, is to be opened for freight and passenger traffic on July 1, and the section from San Jacinto to Cold Springs, four miles, is to be opened about Sept. 1. E. C. SMITH, Fostoria, Tex., has contract. Thos. S. Foster is Pres., Houston; G. R. Wansbrough is Gen. Mgr., at Fostoria. Noted on June 10.

INTERSTATE RY.—Right-of-way has been nearly all secured and financial arrangements practically made to build this railway from Kansas City, Mo., north, via Dearborn, to St. Joseph, 48½ miles. Contracts will be let soon. E. D. Martin is Vice-Pres., and T. P. Martin, Secy., 735 New York Life Bldg., Kansas City.

LACHINE, JACQUES CARTIER & MAISSONEUVE.—This company has made application to the Dominion Parliament for authority to build from a point in the parish of Lachine, Que., north to the city of Montreal, or to Maissoneuve, with power to extend to the northern end of the island of Montreal, and from Lachine to Darval. The incorporators include William Mitchell, of Drummondville, A. Bergevin, G. R. Lightall, A. Wainwright and E. A. Bernard, all of Montreal.

MILSTEAD R. R.—Charter has been applied for in Georgia for a line from Milstead to Conyers, Ga., 3½ miles. The incorporators are H. Y. McCord, J. Carroll Payne, Frank Hawkins and Joseph A. McCord, of Fulton County; John H. Almand, A. F. Johnson, George W. Gleaton, William J. Eakes, of Rockdale County; Fuller E. Callaway and C. V. Truitt, of Troup County.

NEW YORK CENTRAL & HUDSON RIVER.—The New York Public Service Commission, Second District, has issued an order authorizing the elimination of grade crossings in Hastings-upon-Hudson, N. Y., and Ossining, N. Y. The estimated cost is $220,000 at Ossining and $118,000 at Hastings-upon-Hudson, the railway to pay one-half, the state one-quarter and the village one-quarter.

Surveys are reported to have been made and right-of-way secured for a short line to be built from Port Vue, a suburb of Pittsburg, to Clymer, Pa., on the Pittsburg & Clearfield division of the N. Y. C. & H. R., about 70 miles.

OHIO.—Bids are asked until noon, July 21, by the Board of Trustees, Ohio State University, (1) for constructing a railroad (approximately 1¼ miles in length) according to plans and specifications prepared by Jno. R. Chamberlin, Engr.-in-Charge. (2) For constructing a railroad bridge, consisting of three deck plate girders, each 75 ft. span with concrete piers and abutments, in accordance with plans and specifications prepared by Clyde T. Morris, Engr.-in-Charge (3) For constructing the equipment of the Veterinary Clinic Building, in accordance with plans and specifications prepared by Richards, McCarty & Bulford, Archs. Carl E. Steeb is Secy. Bd.

PROVIDENT RY.—Survey will be made soon by the Provident Ry. Right-of-Way Co., which has been chartered to build from El Campo or Glen Flora, Tex., to Hallettsville or Yoakum. The road will be about 60 miles long. Incorporators include Carey Shaw and French Simpson, Hallettsville, Tex.; Frank J. Hardy, El Campo, Tex.; E. W. Townes, Houston, Tex.; Lewis H. Scurlock, Kansas City, Mo., and others. Noted under "Texas" on June 17.

SOUTHERN RY.—W. J. OLIVER & CO., Knoxville, Tex., have been awarded contract for rebuilding a section of railway between Persia and Rogersville, Tenn.

ELECTRIC RAILWAYS.

BROOK HAVEN, N. Y.—At its meting at Ronkonkoma, on June 23, the Brookhaven Town Board granted to the South Shore Traction Co., a franchise to build and operate an electric railroad from Ronkonkoma to Port Jefferson. The road is to start from Sayville, in Islip town, and run through Ronkonkoma, St. James, Stony Brook and Seatuket to Port Jefferson. The terms of the franchise are yet to be decided upon. Noted on June 17, under "New York, N. Y."

SCRANTON, PA.—The Scranton & Lake Ariel Ry. Co. plans to build an electric railway between Scranton and Lake Ariel, about 20 miles in length. Right-of-way is practically secured. John J. Brown is Pres., Scranton. Valentine Bliss, W. J. Davis and others are named as the promoters.

ALLENTOWN, PA.—It is announced that details for expending about $1,000,000 for better trolley service in Allentown were arranged recently at the meeting of the directors of the Lehigh Valley Transit Co. R. P. Stevens is Pres and Gen. Mgr., at Allentown.

BRUNSWICK, GA.—Contract has been awarded to the CHATHAM CONSTRUCTION CO., Brunswick, by the City & Suburban Ry.

Co., it is stated, for building an electric railway in Brunswick. F. D. Strachan is Pres., Brunswick.

BESSEMER, ALA.—The City Council has granted to the Birmingham & Gulf Railway & Navigation Co., of Birmingham, an extension of its franchise of 14 months to build its proposed railway in Bessemer. This company has been granted extensions of its franchises in the towns of East Lake, Graymont and Pratt City.

PROVIDENCE, KY.—The Kentucky Electric Railway Co., capital $10,000, has been incorporated to build an electric and steam railroad from Providence, in Webster County to Dawson Springs in Hopkins County. Construction may begin immediately. The incorporators are B. H. Romey, Providence, Ky.; Ben Sisk, Silent Run, Ky.; J. T. Edwards, S. Hicks, W. G. Romey, M. E. Edwards and M. S. Romey, all of Providence.

FREEPORT, ILL.—The Illinois & Wisconsin Development Association has been organized to promote the construction of an electric line 68 miles in length from Freeport, Ill., to Madison, Wis. W. T. Rawleigh, Pres., of the Citizens Commercial Association, Freeport, is interested.

CHARLESTON, ILL.—The Oil Belt Traction Co. has been incorporated to build a railway from Charleston to Bridgeport. Capital stock, $100,000. Incorporators: G. E. Groves, D. W. Odell, D. J. Odell, Geo. P. Murrin and F. P. Willard, of Oblong, Ill.

The Charleston, Westfield, Marshall & Terre Haute Electric Ry. Co., plans the construction of a 12-mile electric railway between Charleston and Westfield. Three surveys leading out of Charleston have been made. There will be a concrete bridge. N. S. Cook is the Engr.

GRAND RAPIDS, WIS.—We are officially advised that the KNOX ENGINEERING CO., 1410 Fisher Bldg., Chicago, Ill., has the contract for the 8-mile line of the Grand Rapids Ry. Co. The road is to extend from Grand Rapids, Wis., to Nekoosa via Port Edwards. Neal Brown, Wausau, Wis., is Pres. Surveys are made and right-of-way and capital are secured. Contracts will be let soon. The Knox Engineering Co. has the general contract for the engineering construction work and will purchase all material. Noted on June 10.

CLINTON, IOWA.—We are officially advised that the Central Ry. Co., of Iowa will let contracts soon for construction work. This railway, as previously noted, will connect Clinton, Elvira, Bryant, Goose Lake, Charlotte, Delmar, Maquoketa, Hurstville, Dugan, Garry, Owen, Cascade, Rockdale and Dubuque and will be 83 miles in length. It will be operated by electricity. Thos. J. Wilcox, Clinton, is Pres. and Gen. Mgr.; W. A. McCully is Ch. Engr., Clinton. Surveys are made and right-of-way practically obtained. Capital has been tentatively secured. Noted on Oct. 15 and April 22.

HANNIBAL, MO.—The Hannibal & Northern Missouri R. R. Co. has been incorporated in Missouri, with $2,000,000 capital stock. The line will start from Hannibal on the Mississippi River and run through Marion, Shelby, Macon and Adair Counties to Kirksville, taking in the towns of Palmyra, Philadelphia, Bethel, La Plata and Gibbs. It will be 100 miles long Capt. F. W. Latimer of Galesburg, Ill., will be Pres. Henry Hunk, of Clarence, Mo., is interested. Surveying has already been done and active construction work will be begun this summer.

OKLAHOMA CITY, OKLA.—L. E. Patterson, Pres. of the Oklahoma Interurban Traction Co., recently granted a franchise, states that construction will begin this fall, when franchise is effective. Fred. A. Jones, of Dallas, Tex., is Engr. Noted on June 3.

CHICKASHA, OKLA.—The City Council has granted to Lawrence Martin a franchise to build a street railway. The franchise runs for 25 years and provides that the railway must be in operation within one year from the time construction is begun. An election will be held at which the question will be submitted to the people.

OKMULGEE, OKLA.—The Okmulgee Interurban Railway Co. has been chartered with $200,000 capital to build an electric railway eight miles long. The incorporators are J. M. Sims, W. D. Todd, O. A. Lambert, of Okmulgee; A. M. Gamman, of Chelsea, and J. B. Jones, of Muskogee, Okla.

TULSA, OKLA.—The Oklahoma Traction Co. has been chartered to build an interurban railway from Tulsa to Sapulpa, Okla., about 20 miles, at an estimated cost of $300,000. Capital, $100,000. The incorporators are Albert A. Small, Cicero L. Holland, Edgar T. Tucker, Grant C. Stebbins and Samuel A. Orcutt, all of Tulsa. Company has been granted a 25-year franchise. The franchise provides that the company must commence grading within 40 days and the railway completed within a year after the franchise has been granted. The proposed railway will connect Tulsa with Sapulpa and Broken Arrow.

BOULDER, COLO.—The Eastern Colorado Power Co. is to expend about $5,000,000, and will require about five years to complete its work. The initial power plant, furnishing about 20,000 HP., will be installed this year. J. W. E. Taylor, Colorado Springs, Colo., is Supt.

MONTEREY, CAL.—We are officially informed that contracts will be let about Aug. 1 by the Monterey & Del Monte Heights Ry. Co. for building its proposed railway which will be about five miles long. Survey is completed, capital secured and right-of-way obtained. Arrangements for power supply are being made. Contracts for materials are now being let. There will be one 1,200-ft. pile bridge. H. R. O'Bryan is Pres., Monterey; F. M. Fairchild is Ch. Engr., 1707½ Oak St., San Francisco. Noted on June 3.

ONTARIO, CAL.—The Ontario & San Antonio Heights R. R. Co. will extend its line at once from Upland, through Claremont, to North Pomona, six miles. A. W. Burt, Ontario, is Supt.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

PITTSFIELD, MASS.—The Pittsfield Coal Gas Co. has awarded contract to the CRUSE-KEMBER CO. to build a gas holder of 750,000 cu. ft. capacity. It will be built of steel, 131 ft. high and 109 ft. in diam. and cost about $50,000. H. C. Crafts is Supt.

FORT HAMILTON (Brooklyn post-office), N. Y.—We are officially advised that bids were received by the Constructing Quartermaster on June 15 for an electric lighting system and sub-station at this post. The contract has been let to COBURN & COOKE, of Newport News, Va., at $21,174.

BUFFALO, N. Y.—Bids will be received until July 6 by Francis G. Ward, Comr. Pub. Wks., for a steam turbine generator capable of delivering 100 KW. at 125 volts.

NEW YORK, N. Y.—Bids will be received until July 14 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, New York City, for furnishing and installing direct-connected, electrically-driven, vertical pumping units, with appurtenances, including electric lightnig installation, in the pumping station to be erected for the sewage disposal plant at Mt. Kisco.

NEW YORK, N. Y.—The following bids were received on June 28, by C. B. J. Snyder, Supt. School Bldgs., for repairs, alerations and additions to the electric equipment in Public Schools Nos. 4, 27 and 36, Boro. of The Bronx: T. A. Bogart, (4) $5,130, (27) $3,528, (36) $586; T. F. Jackson, 94 John St., (4) $3,945, (27) $3,267, (36) $589; Griffin & Co., 150 Nassau St., (4) $4,495, (27) $3,734, (36) $574; N. Y. Construction Co., 1328 Broadway, (4) $4,857, (27) $4,208, (36) $555; E. J. Duggan, 1133 Broadwry, (4) $3,779, (27) $3,585, (36) $652; Commercial Construction Co., 114 Liberty St., (4) $4,090, (27) $3,292, (36) $689; Cowden & DeYoung, 45 East 42d St., (4) $4,357, (27) $3,691, (36) $623.

Bids were received at the same time and place for installing electric equipment in Girls' High School, on the easterly side of Nostrand Ave., between Halsey and Macon Sts., Boro. of Brooklyn: T. F. Jackson, Inc., 94 John St., $18,995; Cowden & DeYoung, 45 East 42d St., $19,700; Griffin & Co., 150 Nassau St., $21,714; E. J. Duggan, 1133 Broadway, $20,800; Commercial Construction Co., 114 Liberty St., $22,948; N. Y. Construction Co., 1328 Broadway, $20,543.

BRIDGEPORT, N. J.—GEORGE H. PLATT, of Bridgeport, N. J., has been awarded the contract to build the proposed gas plant for this town.

FORT HUNT, VA.—We are officially advised that the G. & W. MFG. CO., 26 Cortlandt St., New York, has been awarded the contract by the Quartermaster General, U. S. A., for the power plant and machinery to be installed at Fort Hunt, Va., which work covers the installation of boilers, generators, pumps and compressors. Bids were opened on June 15. Capt. H. L. Pettus is Const. Q. M.,

TALLULAH, LA.—See item under Water Supply—Irrigation.

WARRENSVILLE, OHIO.—Bids will be received until July 3 by the Board of Public Service, at Cleveland, Ohio, for setting up two horizontal tubular boilers in the powerhouse of the Correction Square of the Cooley Farms at Warrensville, and for furnishing new fronts, grates, fittings, foundations, etc., and erecting a smokestack and breaching. W. J. Springborn is Pres.

DELAWARE, OHIO.—Bids are asked until July 16 by the Board of Trustees of the Girls' Industrial Home, Delaware, for furnishing material and erecting steam and electrical machinery and equipment; changes and additions in steam heating, piping, trenching and conduits; installation of electrical wiring, conduits, teaming and hauling, etc., for the Girls' Industrial Home at Rathbone, Delaware County. Harold M. Bush, Engr.-in-Charge, Broad Oak Bldg., Columbus; T. F. Dye is Secy.

RICHWOOD, OHIO.—We are officially advised that bids were received on June 19 by Ray L. Jordan, Village Clerk, for lighting the streets with 35 or more arc lamps of not less than 200 c.p. for a period of ten years. The contract has been let to EDWARD A. SCHAMBI, at $62.50 a light per year.

INDIANAPOLIS, IND.—Bids are asked by the Board of Public Works until July 2 (readvertisement for the electric wiring and conduits for the new City Hall, George M. Brill, Consult. Engr., 204 Dearborn St., Chicago, Ill. Rubush & Hunter, Archs., American Central Life Bldg., Indianapolis.

LA FAYETTE, IND.—Bids are asked by A. J. McCorkle, Chn. Bd. Trustees, State Soldiers' Home, until noon, July 10, for the installation of an electric motor for laundry; the construction of a 1,000-bbl. cistern and an amount of piping.

DETROIT, MICH.—On June 14 the Public Lighting Commission awarded contract for building conduit on Grand River Ave., from Washington Ave. to 12th St., to CHARLES B. COLE. Estimated cost, $14,803.

MILWAUKEE, WIS.—Charles Fitzgerald, Arch., 55 Hathaway Bldg., Milwaukee, has awarded mason and carpenter contract for the power-house to be erected on Dover St., between Greeley St. and railroad tracks for Joseph Bach Estate, to MEREDITH BROS. CO., 1043 Kinnickinnic Ave., Milwaukee.

DES MOINES, IOWA.—Contracts aggregating $272,000 for work on its Des Moines plant and system were let on June 21 by the Des Moines Electric Co., according to the Des Moines "News." W. H. BRERETON secured the contract for the building at $67,000. Structural steel in the plant and the huge smokestack will be furnished by the DES MOINES BRIDGE & IRON CO. In addition to the contracts for the plant the contracts for putting the wires underground in the business section of East Des Moines were let to the TURNER IMPROVEMENT CO. at $80,000. From Grand Ave. to Court Ave. and the river to Pennsylvania Ave. all the wires and poles will be taken down and put in underground conduits. Paul B. Sawyer is Gen. Mgr.

WETUMKA, OKLA.—The Franklin Construction Co., of St. Louis, Mo., has submitted a proposition to Wetumka regarding the erection of an electric light plant.

PULLMAN, WASH.—The Board of Directors of the Washington State College has awarded the contract for additional plant to H. A. GLAZE, of Pullman, for $17,000. E. A. Bryan is Pres.

REPUBLIC, WASH.—The foundation is being laid for the erection of the electric power plant for the New Republic Co., in the bench west of the Old Republic mill. The plant will furnish power for the New Republic, San Pail, Blacktail and other properties.

BEND, ORE.—The work of building the dam on the Deschute River is to begin at once. An electric power plant will be installed to furnish power for the pumping plant and light the town. A. M. Drake is to have charge of the work.

NEVADA CITY, CAL.—Edward C. Uren, C. E., of this city, and a corps of assistants, are in the field on the Middle Yuba River below Graniteville, making the survey for the proposed electric plant to be installed by Dr. A. G. Tickell.

PHOENIX, ARIZ.—Contract has been awarded to WILLIAM B. POLLOCK & CO., of Youngstown, Ohio, for furnishing 10-ft. penstock for the power-house at Roosevelt Dam, Salt River irrigation project, Ariz. The cost will be about $6,500.

PRICE, UTAH.—The Price Town Board will take action soon on a proposition to install a municipal electric lighting plant in Price.

NIAGARA FALLS, ONT.—Bids will be received until July 6 by Adam Beck, Chn. Hydro-Electric Power Comn., Continental Life Bldg., Toronto, for constructing a transformer station building at Niagara Falls and a transformer and interswitching station building at Dundas.

*TORONTO, ONT.—The City of Toronto will call for bids soon on approximately the following apparatus: Two 1,500-HP. induction motors, direct connected to turbine pumps; 4 1,500-HP. synchronous motors with turbine pumps; four 500-HP. synchronous motors, with turbine pumps; two 500-HP. induction motors, with turbine pumps; two 300-HP. induction motors, with turbine pumps; two 225-HP. synchronous motors, with turbine pumps; together with valves, piping, bed plates, couplings, switchboards, connecting material, etc. C. H. Rust is City Engr.

CALGARY, ALTA.—Plans prepared for the Calgary Power & Transmission Co., of this city, call for an expenditure of $700,000 this summer.

KAMLOOPS, B. C.—We are officially advised that bids were received by J. J. Carment, City Clerk, for steam and electric machinery to cost about $13,000. The contract for engine and alternators has been let to the CANADIAN WESTINGHOUSE CO., Sovereign Bank Bldg., Montreal, Que. The contract for boilers and condensers has been let to the CANADIAN FAIRBANKS CO., 444 St. James St., Montreal. H. K. Dutcher, Flack Block, Vancouver, B. C., is Engr.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

*CLINTON, ME.—Bids will be received at the Court House, Augusta, by the Commissioners of the Counties of Somerset and Kennebec until noon, July 27, for building a bridge across the Kennebec River, between the towns of Clinton and Fairfield. The length of bridge will be about 600 ft. in three spans and proposals will be received separately for the masonry and the superstructure. Specifications may be obtained on application to E. E. Greenwood, Skowhegan, Me.

EDEN, ME.—Bids for the construction of a causeway or bridge leading from Bridge St., Bar Harbor, to Bar Island, in the town of Eden, will be received until 2 p. m., July 10, at the office of the Selectmen of the Town of Eden.

*NEWBURYPORT, MASS.—We are officially advised that contract has been awarded by the County Commissioners, Salem, to HOLBROOK, CABOT & ROLLINS CORPORATION, Boston, for rebuilding the "chain" bridge, at $55,000. Bids were opened on May 24 and list of bidders noted on June 3.

HARTFORD, CONN.—The General Assembly has acted favorably on the proposition to build a bridge between Old Saybrook and Old Lyme, and has authorized a bond issue of $400,000 for that purpose.

PHILADELPHIA, PA.—We are officially advised that bids were received on June 17 for bridges under Schedule "A," and contracts have been awarded as follows: Bridge on line of Passayunk Ave., over the Schuylkill River to STROBEL STEEL CONSTRUCTION CO., 1744 Monadnock Bldg., Chicago, Ill., at $313,000, 12 mos., consisting of a 200-ft. span double-leaf bascule bridge with eleven approach spans with a total length of 1,100 ft. containing 2,600 tons structural steel and 125 tons of machinery; grading approaches to Levick St. bridge under the Philadelphia & Trenton R. R., to RICHARD WALSH, 5922 Tacony St., Wissanoming, Philadelphia, at $20,000, 5 mos., consisting of 23,679 cu. yds of fill, at 27 cts., 5563 sq. yds. of macadamizing at 85 cts. and incidental work.

BUTLER, PA.—Bids will be received until July 9 by the County Commissioners, Butler, for the following bridge work: Keck Bridge over Brush Creek in Cranberry Township, Adams Bridge in Adams Township, Boydstown Bridge over Connoquenessing Creek in Oakland Township, substructure in each case to be of concrete and superstructure of steel; McFann Bridge, over Glade Run, in Middlesex Township, substructure to be of masonry and superstructure of steel.

WASHINGTON, PA.—Bids will be received until July 7 by the County Commissioners, Washington, for constructing plate girder bridges as follows: Bridge over Cross Creek between Hopewell and Cross Creek Townships 39 ft. 4-in. span, over Buffalo Creek in Buffalo Township, 39 ft. 1-in span, over Cherry Run, between Smith and Mount Pleasant Townships, 45 ft. 4-in. span, over Maple Creek, between Charleroi and Speers Borough, 51 ft. 4-in. span, a riveted Pratt truss bridge over Little Chartiers Creek at Van Eman's Station, 85 ft. 8-in. span; each bridge to have concrete and brick floors and concrete abutments. Caney & Armstrong are County Engrs., Washington.

MEADVILLE, PA.—We are officially advised that the PENN BRIDGE CO., Beaver Falls, Pa., has been awarded contract, bids opened on June 26, by the County Commissioners, for constructing a 228-ft. double-span truss bridge in Hayfield Township, at $7,026. The same firm was awarded contracts for bridges in Vernon, Sudbury and Richmond Townships. L. J. Curtis is Clk.

PETERSBURG, VA.—The city has granted a franchise to W. G. Davis, Norfolk, Va., for the construction of a viaduct. Estimated cost, $40,000.

LEESBURG, VA.—Loudon County will construct an iron or concrete bridge across Tuscarora Creek, about one mile east of Leesburg, and iron bridge across creek on road from Ashburn to Arcola, about seven miles from Ashburn. Bids are asked until July 10.

YORKVILLE, S. C.—Bids are asked until July 6 by the York County Commissioners for constructing a bridge across Bullock's Creek at Barret's Mill.

ENOREE, S. C.—The Supervisors of Laurens and Spartanburg Counties have awarded contract to DAVID BALENTINE, Laurens, S. C., and CALVIN YARBOROUGH, Cross Anchor, S. C., to rebuild the Enoree bridge, at Enoree, to be 16-ft. steel structure. Estimated cost, $5,300.

GADSDEN, ALA. — The city contemplates the erection of a concrete bridge across Town Creek.

YAZOO CITY, MISS.—Bids are asked until July 5, by the County Supervisors, S. S. Griffin, Clk., for construction of a bridge over Silver, DuBuisson, Cat and Mobley Creeks.

GRENADA, MISS.—The Board of Supervisors, John S. King, Clk., will receive bids until July 5 for the construction of a reinforced concrete bridge across Spring Lake and wooden bridge across Cane Creek.

INDEPENDENCE, LA.—Bids will be received until July 3 by C. L. Buck, Clk., Police Jury, Amite City, La., for repairs to the steel bridge over Tangipahoa River at Independence.

AKRON, OHIO.—Bids are asked until 11 a. m., July 2, by the County Commissioners, Charles L. Wirth, Clk., for a new floor system of creosote for the following bridges: Two bridges at Twinsburg Center, one bridge on Robinson Ave., Barberton; one bridge one mile north of Sherman, Norton Township.

COLUMBUS, OHIO.—Bids will be received by the County Commissioners until July 19 for the following work: Engineer's estimate No. 1000, raising and paving the superstructure and raising and extending the substructure of the Breckenridge bridge, on Jackson Pike, in Jackson Township; estimate No. 1061, constructing, graveling, etc., the approaches to said bridge. F. M. Sayre is County Audr.

MONTICELLO, IND.—Bids are asked until noon, July 7, by J. L. Ackerman, County Audr., for the construction of stone abutments for 19 bridges and repairs on abutments of two bridges.

BLUFFTON, IND.—Bids will be received by the Commissioners of Wells County until July 5 for construction of new plate girder, double 75-ft. span bridges across Salamonie River, in Jackson Township. O. D. Garrett is County Audr.

BLOOMINGTON, IND.—The Monon R. R. Co. has awarded contract to the STROBEL STEEL CONSTRUCTION CO., Monadnock Bldg., Chicago, for the construction of ten new bridges.

ROCK ISLAND, ILL.—The WISCONSIN BRIDGE CO., Milwaukee, Wis., has been awarded contract for the construction of a 500-ft. bridge over Cedar Creek, for the Rock Island & Southern Electric Ry. Co.

CHICAGO, ILL.—Contract for reconstructing the River St. approach to the Rush St. bridge, bids opened on June 17, has been awarded to the NATIONAL CONTRACTING CO., Security Bldg., Chicago, at $8,925. John J. Hanberg is Comr. Pub. Wks.

*CHICAGO, ILL.—Bids are asked by the Board of Trustees of the Sanitary District of Chicago until noon, July 14, for furnishing metal work for the superstructure of highway bridges across the North Shore Channel. For details see advertisement. L. J. Bryan is Clk.

RED WING, MINN.—Bids are asked until 7.30 p. m., July 14, by the Board of Public Works, E. C. Erb, Pres. for the construction of a riveted 90-ft. through-span steel bridge, with concrete abutments. A. E. Rhame is City Engr.

PLANKINGTON, S. DAK.—Bids will be received by the Board of County Commissioners (C. W. Groves, Chn.) at the office of C. E. Archer, County Audr., until July 8, for constructing three steel truss bridges on stone abutments.

CAMERON, TEX.—The Commissioners' Court has awarded contract at $5,980 to C. Q. HORTON, of Austin, for the erection of a steel bridge across Little River.

FREDERICK, OKLA.—Bids will be received until July 13 by John B. Darden, County Clk., for constructing four combination bridges at follows: A 40-ft. span, with

two 20-ft. approaches; two 30-ft. spans with 10-ft. approaches, a 30-ft. span without approaches.

BELLINGHAM, WASH.—Bids are asked until 2 p. m., July 16, (readvertisement) by Alexander Van Wyck, County Audr., for the removal of the drawbridge from the old channel of the Nooksack River at Marietta to the new channel, and for building wing dams and approaches to same; also to build over the old channel a pile bridge in place of draw bridge.

CENTRALIA, WASH.—Bids will be received until July 6 by W. H. Hodge, City Clk., for furnishing material and constructing bridges across China Creek on Pearl, Ash, Walnut, Cedar, Pear, Yew, Maple and Plum Sts.

SPOKANE, WASH.—Bids will be received until July 7 by the Board of Public Works (J. T. O'Brien, Secy.) for constructing a reinforced concrete bridge at East Olive St.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Contracts for erecting the Peter Fanuell School, at Joy and South Russell Sts., have been awarded as follows: Construction, to JOHN F. GRIFFIN CO., 95 Milk St., at $90,781; ventilating and heating, to McLEAN & COLUSENS, $7,977, and plumbing, to P. J. SULLIVAN, 11 East Concord St., $4,437.

The Boston Wharf Co., 259 Summer St., is to build a 9-story fireproof structure which will be numbered 269-71-73 Summer St., South Boston. The property has a frontage of 135 ft. on Summer St. and runs through to Melcher St., with a frontage of 135 ft. The building will be used as a warehouse. Cost, $150,000.

NORTHAMPTON, MASS.—The Building Committee of the Smith College Board of Trustees has awarded the contract for the erection of the new assembly hall to HORTON & HEMENWAY, 683 Atlantic Ave., Boston. Other contractors who figured on the contract are J. L. Mather, M. C. Bailey, Merrick Lumber Co. and Casper Ranger, of Holyoke. The cost of the building and equipment, including a pipe organ, will be about $175,000. The material will be red brick and the style colonial. It will have a seating capacity of 2,000. The location will be in part on the site of the Dr. E. H. Copeland house on Elm St., which was moved to make room for it. The contract calls for the completion of the edifice by May 1, 1910, and work will be started upon it at once.

NEW LONDON, CONN.—Bids are asked by the County Commissioners until July 16, for the proposed addition and alteration of the New London court-house. When the vote to improve the court-house was taken it was urged that bidding be confined to New London contractors. It is now intended to allow any contractor in New London County to bid and possibly to accept bids from all parts of the state. Dudley St. C. Donnelly, 98 State St., is Arch.

NEW YORK, N. Y.—Bids are asked until 2.30 p. m., July 7, by Robert W. Hebberd, Comr. of Public Charities, for furnishing all the labor and materials required for repairing the boiler, steam and return mains at the New York City Home for the Aged and Infirm, Blackwell's Island, the City of New York.

Bids are asked by Robert W. Hebberd, Comr. of Public Charities, until 2.30 p. m., July 8, for furnishing all the labor and materials required to lay tile roofs on the two wings of the Kings County Hospital, Boro. of Brooklyn.

Schwartz & Gross, Archs., 347 Fifth Ave., have completed plans for two 12-story elevator apartment houses, to be erected in the south side of 79th St., 86.4 ft. east of Riverside Drive. The cost will be in the neighborhood of $600,000. The Edendale Construction Co., 198 Broadway, will erect the buildings.

General contract has been awarded to GEORGE VASSAR'S SON & CO., 1170 Broadway, to erect the 5-story brick residence, 25x72.4 ft., at No. 15 West 68th St., for Mrs. J. P. Erdman, of 6 West 49th St. Buchman & Fox, 11 East 50th St., are Archs. Estimated cost, $75,000.

Plans for the 24-family tenement to be erected at the southwest corner of Fordham Road and Loring Pl., the Bronx, have been finished by J. H. Amsler, Arch., 1613 Crosby Ave. The building will contain 5 stories, 50x92 ft., and is to be erected by the JULIETT CONSTRUCTION CO., 2637 Creston Ave. The owners will build themselves. Estimated cost, about $50,000.

NEW YORK, N. Y.—Bids are asked by John J. Barry, Comr. Dept. of Correction, until 11 a. m., July 8, for furnishing all the work and materials required for the erection and completion of a 2-story and cellar brick fireproof industrial building on Harts Island, New York City.

Col. W. D. Mann, 452 Fifth Ave., intends to build a publishing structure in New York. He has bought the site, 327-329 West 37th St., through to 310 to 328 West 38th St., on part of which stand old flat houses. The 14-story structure will be called the Graphic Building. The 38th St. frontage is 250 ft., that on 37th St. being 50 ft. Title to the 37th St. houses is held by Magistrate Joseph M. Deuel and Eva Mann Vynne. The architects are Palmer & Hornbostel, 63 William St.

D'Oench & Yost, Archs., 289 Fourth Ave., have filed plans for a 12-story office and loft building for the Tilden Investment Co., Loton H. Slawson, Pres., to be built at 105 to 111 West 40th St., between old Mendelssohn Hall and the new marble Union Dime Savings Bank on the corner of Sixth Ave. The building will be of brick, limestone and terra cotta in modified Gothic, with three tiers of large bays. It will front 90 ft., with a depth of 98.9 ft. on the east and 845 on the west. It is to cost $400,000.

Sheffield Farms, Slawson-Decker Co., will build a 4-story stable, 125x98.9 ft., on the north side of 28th St., 300 ft. east of Eleventh Ave., from plans filed by F. A. Rooke, Arch., 489 Fifth Ave. It will cost $75,000.

I. Lippman, 66 Lafayette St., will erect a 6-story flat building on the east side of Fifth Ave., 24.11 ft. south of 128th St., to cost $50,000. Charles B. Meyers, 1 Union Sq., is Arch.

NEW YORK, N. Y.—Bids are asked until 11 a. m., July 24, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a medical supply depot at the Naval Hospital, Brooklyn.

Plans for the new meeting-house and Sunday School of the Society for Ethical Culture, to be built at the southwest corner of Central Park West and 64th St., adjoining the Ethical Culture schools conducted by the same society at the southerly end of the block, have been filed by Robert D. Kohn, Arch., 170 Fifth Ave. The plans show that the assembly rooms, Sunday School, library and other parish rooms are to be placed in two stories above the auditorium proper. The building is to be 81 ft. in length on Central Park West, 100 ft. on 64th St., and about 85 ft. high. It is to have an exterior of white Bedford stone, very simple and dignified in character, and designed to correspond in its main cornice and base line with the adjoining building. The building will cost $300,000.

PETER CLEARY, 115 Marion St., Brooklyn, has secured the contract for the church building at the corner of 13th Ave. and 57th St., Brooklyn, for the Roman Catholic Church of St. Frances De Chantal, Rev. Fr. John McAdam, Pastor. Helmle & Huberty, 190 Montague St., are Archs.

Townsend, Steinle & Haskell, Archs., 1328 Broadway, have completed plans for the 11-story elevator apartment house, 72.4 x 115 ft., about to be erected at the northeast corner of Riverside Drive and 91st St., by the Townsend Realty Co., of 1328 Broadway. The cost of construction is estimated at $400,000.

A 3-story frame hotel, 77 x 160 ft., is to be built at Arverne on the east side of Ammerman Ave., 580 ft. south of Ocean Ave., by Gold & Goldsmith, at a cost, including plumbing, of $110,000.

NEW YORK, N. Y.—Bids are asked by the Armory Board until 2 p. m., July 16, for all work and materials required in the construction and completion of a new Armory building for the 22d Regiment Engineers, N. G., N. Y., at Fort Washington Ave., 168th and 169th Sts., Boro. of Manhattan.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. Dept. of Public Charities, until 2.30 p. m., July 6, for providing all labor and materials necessary or required for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, electric work, heating and ventilating work, plumbing work and all other work (except certain kitchen, sterilizing and lighting fixtures, refrigerators and vacuum sweeping machinery), as set forth in the drawings and specifications for the construction and entire completion of a nurses' home building for the Children's Hospital, situated at the north end of Randalls Island, Boro. of Manhattan, the City of New York.

Plans are in progress for the freight and passenger terminal to be erected on the west side of West St., between Liberty and Cortlandt Sts., by the Pennsylvania R. R. Co., James McCrea, Pres. The construction will be of steel, concrete and corrugated iron, two stories high, about 250 x 75 ft., and the approximate cost $200,000.

Bids were received on June 11 at the office of William H. Edwards, Comr. of Street Cleaning, for furnishing materials and making alterations to stable A of the department at 17th St. and Ave. C., and the following are the bids received, (a) general construction, (b) plumbing: Snare & Triest Co., 143 Liberty St., (a) $45,180, (b) $4,100; N. B. Smythe, 1123 Broadway, (a) $41,567, (b) $1,716; James McArthur, 22 Ormand Pl., Brooklyn, (a) $29,837, (b) $869; Kelly & Kelley, 45 East 42d St., (a) $37,628, (b) $510; I. & L. Moreland, 1910 Park Ave., (a) $37,479, (b) $1,032; A. Feldman Construction Co., Bible House, (a) $49,832, (b) $1,185.

CALLICOON, N. Y.—Bids are being received by Thomas J. Duff, Arch., at 407 West 14th St., New York, for the college building to be erected at Callicoon, Sullivan County, for St. Joseph's College. This structure will cost $150,000, and will be constructed of native stone and brick, four stories, 148 × 100 ft.

HUDSON, N. Y.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., July 28, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Hudson.

NEW BRUNSWICK, N. J.—Keith & Proctor, Broadway and 28th St., New York, are making plans for the erection of a theatre at New Brunswick. William Proctor has obtained an option on a plot in Albany St., 95 x 280 ft. It is the intention of the company to erect a stone structure.

RAHWAY, N. J.—The M. BYRNES BUILDING CO., 430 Westfield Ave., Elizabeth, N. J., has received the general contract to erect the proposed Rahway public school, at $66,800.

ELIZABETH, N. J.—The HEDDEN CONSTRUCTION CO., 38 Academy St., Newark, has secured the contract to erect a 1-story marble building for the Union County Trust Co. on West Grand St., and the HERRING, HALL, MARVIN SAFE CO., 400 Broadway, New York, the contract for the vault work. The cost of the building is to be about $125,000.

KEARNY, N. J.—The general contract has been awarded to the J. S. ROGERS CO., of Mooretown, N. J., at $76,250, for the proposed school to be erected on Kearny Ave., near Midland Ave., Kearny, from plans by William T. Towner, of 320 Fifth Ave., New York. This was the lowest bid received. Other bidders were: Oscar H. Schaelzke, $82,565; George Wharton, $84,908; Abel Baltousi, $85,700; Fidelity Construction Co., $86,340.

PHILADELPHIA, PA.—CRAMP & CO., Commonwealth Bldg., have secured contract to erect an 8-story warehouse of brick and steel, 150 x 170 ft., and a power plant, 50 x 100 ft., at Front and Noble Sts., for the Philadelphia Warehousing & Cold Storage Co. Total cost, $650,000.

BURD P. EVANS & CO., 706 North Sixth St., have a contract to build a 1-story storage warehouse, 170 × 303 ft., at Montgomery and Glenwood Aves., to cost $70,000. Ballinger & Perrot, 102 South Second St., are Archs.

The Philadelphia & Reading Ry. Co. will soon let the contract to erect a 5-story office building, to be erected on Spring Garden St. William Hunter is Ch. Engr., Philadelphia.

OLYPHANT, PA.—Lewis Hancock, Jr., of Scranton, Pa., has prepared plans for a theater to be erected on Delaware St. for Ferguson Bros., of Olyphant, at a cost of $40,000.

ANNAPOLIS, MD.—Bids are asked by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Washington, D. C., until 11 a. m., July 24, for constructing four officers' and nurses' quarters and one stable at the Naval Hospital, Annapolis, Md.

BALTIMORE, MD.—Plans have been completed by Theodore W. Pietsch, Arch., American Bldg., for a moving-picture and vaudeville theater to be erected by the Wilson Amusement Co., at 8 and 10 North Gay St. and 418 East Baltimore St. The theatre will cost about $50,000. Plans are now on file at the Builders' Exchange and the following contractors have been invited to send in bids: Engineering Contracting Co., Henry L. Maas, M. C. Davis, Charles L. Stockhausen, J. K. McIver and the Charles McCaul Co., of Philadelphia. The building will be an L-shaped structure, with the main entrance on Baltimore St., and the auditorium on the lot fronting on Gay St. The entrance will be through the building occupied by Jacoby's clothing store, which has been purchased and which will be remodeled into the most attractive fronts in the city. There will be a lobby 20 × 90 ft. in the main building, which will be 43 × 132 ft. The construction will be fireproof with steel and terra cotta floor arches. The seating capacity will be about 650. It is expected to be ready for occupancy Oct. 1.

The Architectural Commission has approved plans of Parker & Thomas, Archs., Union Trust Bldg., for a building for Bayview Asylum, to be erected at a cost of $75,000.

The contract for the Luthern Deaconess Mother House, designed by J. E. Sperry, Arch., Calvert Bldg., has been awarded to the BENJAMIN F. BENNETT BUILDING CO., 123 South Howard St. The building is to be completed by July 1, 1910. The total cost, exclusive of the mechanical plant, will be about $79,000.

CLIFTON FORGE, VA.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Clifton Forge, Va., to CECIL L. SAUNDERS, Ithaca, N. Y., at $44,700. Time, July 15, 1910.

CLARKSBURG, W. VA.—We are officially advised that Milburn, Heister & Co., Archs., Home Life Bldg., Washington, D. C., have awarded the contract for Judge Goff's bank and office building to the ELLIOT-WINCHELL CONSTRUCTION CO., Wheeling, W. Va., the lowest bidders. This contract covers the superstructure. The contract for the steel work has been awarded to the AMERICAN BRIDGE CO., 30 Church St., New York.

DALLAS, N. C.—We are advised that the County Commissioners of Gaston County have employed Milburn, Heister & Co., Archs., Home Life Bldg., Washington, D. C., to prepare plans and specifications for a jail building.

FERNANDINA, FLA.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Fernandina, Fla., to D. J. PHELPS, Newport News, Va., at $78,378. Time, June 30, 1910.

OXFORD, MISS.—Bids will be received until Aug. 1 by the Building Committee of the Board of Trustees of the Union of Mississippi for erecting a library building complete, to cost $50,000. Harry N. Austin is Arch., Jackson. D. M. Kimbrough is Chn.

MAYFIELD, KY.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Mayfield, Ky., to the McHENRY-BEATTY CO., East Liverpoool, Ohio, $44,390. Time, June 30, 1910.

DANVILLE, KY.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of the post-office at Danville, Ky., to JOHN G. UNKEFER, Minerva, Ohio, at $63,369. Time, Aug. 31, 1910.

*BOWLING GREEN, KY.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Aug. 4, for the construction (including plumbing, gas piping, electric wiring and conduits, and standard clock system) of the U. S. post-office and court-house at Bowling Green.

MARYSVILLE, OHIO.—At a meeting of the County Commissioners on June 21, the bids for the new Union County Children's Home were all rejected on account of slight technicalities in the law, and the work will be readvertised, and the contract let on July 17.

MARION, OHIO.—It is reported that the HALL-CRONAN CO., of Dayton, has secured the contract for erecting a 2-story brick office building here for the Marion Steam Shovel Co., at a cost of $125,000. Richards, McCarty & Bulford, Archs., Ruggery Bldg., Columbus.

INDIANAPOLIS, IND.—George L. Mass will receive bids for the construction of a business block at 324 North Delaware St. as soon as plans can be completed.

Arthur Jordan will erect on North Pennsylvania St. for the Studebaker Co., a 6-story building according to plans by Rubush & Hunter, Archs., American Central Life Bldg., and will ask for bids at once for the construction.

J. E. Stiltz is asking for bids for the erection of a large apartment house on College Ave. Herbert L. Bass & Co., Commercial Blub Bldg., are Archs.

GREENSBURG, IND.—Bids will soon be asked by Township Trustees for the erection of two school houses, one at Clarksburg and one at Burney, on sites of old buildings, condemned by Health Board.

LANSING, MICH.—Contracts for rebuilding high school have been awarded as follows: General construction, BURKE, SMITH & NELSON, of Muskegon, Mich., $57,900; ventilating and heating, SHIELDS & LEADY, of Lansing, and plumbing, F. H. DOUGHERTY & CO., for $2,237. Wiring bids were all rejected. C. G. Jenkins is Clk. Bd. of Education.

*BELLEVILLE, ILL.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., July 29, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Belleville.

COUNCIL BLUFFS, IOWA.—Bids are asked until 3 p. m., Aug. 3, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of an extension to the U. S. post-office and court-house at Council Bluffs.

ST. PAUL, MINN.—E. L. Masqueray, Arch., city, will soon take bids on a portion of the superstructure of the $1,000,000 Catholic Cathedral now in course of construction. About $300,000 worth of work will be done this year on the superstructure. Rev. John Ireland is Archbishop.

Plans are being prepared by C. H. Johnston, Arch., Manhattan Bldg., for a 3-story pressed brick and cut stone Home for the Aged, to be built at Snelling and Langford Aves. It will have steam heating, electric lighting and be fireproof. Rev. A. G. Pinkham, city, is Pres. Cost, $80,000.

VICTORIA, KAN.—BENJAMIN BROWN, of Salina, Kan., has secured the contract to erect a Roman Catholic Church here, to cost about $100,000.

OMAHA, NEB.—Bids are asked until 11 a. m., July 10, by Capt. George S. Gibbs, Constr. Q. M., for the construction, plumbing, heating, electric wiring and electric fixtures of an addition to post hospital at Fort Omaha.

KANSAS CITY, MO.—The C. L. GRAY CONSTRUCTION CO., Victoria Bldg., St. Louis, Mo., has secured contract for erecting a 12-story hotel on Tenth and Wyandotte Sts., to cost about $200,000. Barnett, Haynes & Barnett, Frisco Bldg., St. Louis, are Archs.

The Wells-Fargo Express Co. has had plans prepared for a 4-story storage equipment building to be erected at 19th and Central Sts. at a cost of $150,000.

ST. JOSEPH, MO.—D. E. MARSHALL & CO. have secured the contract to erect a 7-story office building for the Noyes-Norman Shoe Co., on North Third St. Cost, about $150,000.

SAN ANTONIO, TEX.—Mrs. H. D. Kampmann has awarded to JAMES SKIRVING, 504 River St., the contract for alterations and additions to Menger Hotel, to cost $40,000. Alfred Giles is Arch., San Antonio.

TEXARKANA, TEX.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Texarkana, to M. YEAGER & SON, Danville, Ill., at $100,552.

BOULDER, COLO.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, has awarded contract for the construction of a post-office at Boulder, Colo., to the McHENRY-BEATTY CO., East Liverpool, Ohio, at $50,514. Time, Aug. 1, 1910.

DENVER, COLO.—H. M. Potter will begin work of erecting a $75,000 hotel, five stories in height, at once.

The Broadway Investment Co. has begun work on its $100,000 6-story hotel building at 20th St. and Broadway.

A building to cost $125,000 will be built by the Chamber of Commerce and the Colorado Traffic Club.

W. E. Fisher & Bro., Archs., Ferguson Bldg., have drawn plans for a $75,000 apartment house, to be erected by Frank S. Thayer, at East 14th Ave. and Elizabeth St.

Judelovitch & Conway will begin at once the construction of a $75,000 hotel at the north corner of Broadway and Glenram St.

The Buxton Real Estate & Investment Co. is to erect a 4-story apartment house on Sherman Ave., between 13th and 14th Sts., to cost approximately $45,000.

TACOMA, WASH.—The Fannie Paddock Hospital has plans completed for the erection of a fireproof hospital.

SEATTLE, WASH.—A syndicate, composed of Jafet Lindberg and H. C. Ewing, of Seattle, and James Black and Isaac T. Cook, of St. Louis, Mo., will erect at once a 6-story steel frame business building.

The Seattle Electric Co. will erect an 8-story office building on the half block on the east side of Sixth Ave., between Pine and Olive Sts.

The Washington Securities Co., 406 Crary Bldg., has plans filed for a steel frame office building, to cost $800,000. Graham & Myers, Lowman Bldg., are Archs.

J. H. Steele, 212 Globe Bldg., has plans filed for a 6-story steel and brick building, to cost $135,000. J. O. Taft, 409 Arcade Bldg., is Arch.

It is stated that $100,000 is to be expended

upon alterations to premises at 1918-34 Second Ave. J. A. Moore, 400 Arcade Annex, is the owner.

Plans are being made for the construction of a $175,000 8-story modern bachelor apartment house on the southwest corner of Pike and Belmont Sts., by the McLaughlin Realty Co., American Bank Bldg.

VANCOUVER, WASH.—Plans are being prepared by Berndt & Tegan, Archs., of Portland, Ore., and will be ready about July 1, for a $150,000 brick hospital to be erected at Vancouver, Wash., for the Sisters of Charity.

SPOKANE, WASH.—Charles F. Fay, Ninth and Elm Sts., will erect a $40,000 4-story brick apartment at Ninth and Post Sts.

PORTLAND, ORE.—Bids will be received at the office of Whidden & Lewis, Archs., 701 Corbett Bldg., Portland, until July 1, for furnishing, fabricating and delivering at building site all the structural iron and steel for the east wing of a court-house, to be erected for the County of Multnomah, State of Oregon.

Plans are being drawn by James Knox Taylor, Superv. Arch. of the Treas. Dept., Washington, D. C., for a post-office building for Portland, to cost about $2,500,000.

SAN FRANCISCO, CAL.—Houghton J. Sawyer, Arch., Shreve Bldg., has plans for an apartment house to cost $70,000.

O'Brien Bros., Archs., Clunie Bldg., are preparing plans for a 5-story brick restaurant and hotel building, to cost about $50,000.

An apartment house is to be erected on Pine and Leavenworth Sts. by C. M. Osborn, to cost about $85,000.

A petition by Rudolph Spreckles and Claus Spreckles, as executors of the estate of Claus Spreckels, deceased, for permission to construct a Class A theater and store building in Market St., between Fifth and Sixth Sts., has been filed with the Superior Court. The building is to cost $250,000. It is to be known as the Theater Building.

SAN FRANCISCO, CAL.—Bids were received as follows on June 28 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, for the installation of the partitions, screens, fixtures and other interior finish in the U. S. court-house, San Francisco, Cal.: Ambrose B. Stannard, St. James Bldg., $86,348; Pacific Mfg. Co., San Francisco, Cal., $105,990; Thomas Butler, San Francisco, $97,592; Grant Fee, San Francisco, $101,000. Time, 10 months.

LOS ANGELES, CAL.—The F. O. Engstrum Co. submitted the lowest bid, $40,788, to the Board of Public Works for the construction of a reinforced concrete 3-story engine house on East 5th St., east of Los Angeles St., and extending through to Winston St.

PHOENIX, ARIZ.—The contract will be let soon for the construction of the proposed 4-story National Bank of Arizona building, estimated to cost $100,000. W. J. Bliesner is the Arch.

SALT LAKE CITY, UTAH.—The Z. C. M. I., a corporation, has taken out a permit to erect a 4-story, 4-room brick and steel store at 26-40 East South Temple St., to cost about $100,000. Rutherford & Hansen are Archs.

George Whitington Eldredge, Arch., has drawn plans for the Bergman-Glaser apartment house, to front on Third South St., between Second and Third East Sts., to cost about $40,000.

Plans are now in preparation for the erection of a new $75,000 fireproof warehouse by the Fireproof Storage & Trust Co., B. F. Redman, Mgr.; F. J. Gustin, Secy.

Hyrum Stewart, of Kaysville, Utah, has accepted the plans prepared by George S. Walker for a $65,000 apartment house to be erected at the corner of C St. and First Ave., Salt Lake City.

The Salisbury Co. has taken out a permit for a brick and steel store and office building to be erected on South Main St., at a cost of $150,000. The building will contain 112 rooms.

MOSCOW, IDAHO.—Bids are asked until July 15 by M. E. Lewis, Pres. Bd. Regents, Moscow, for building the north wing of the superstructure of the administration building for the University of Idaho. Bids to be on building, except heating and plumbing, and on heating and plumbing. Preuse & Zittel, Jamieson Bldg., Spokane, Wash., are Archs.

LEWISTON, IDAHO.—The proposition to issue bonds in the sum of $55,000 to build a high school building has been carried.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

NORWALK, CONN.—The Water Department on June 14 opened bids for constructing and completing a dam across the Silver Mine River at Brown's Mill in the town of Lewisboro, N. Y. Contract has been awarded to the JOBSON & HOOKER CO., 1170 Broadway, New York, at $41,197. List of bidders noted last week.

SENECA FALLS, N. Y.—The citizens on June 22 voted in favor of issuing $240,000 of bonds for the construction of a municipal water-works plant.

NIAGARA FALLS, N. Y.—Bids for furnishing and laying the intake pipe and building the intake pier were received by the Board of Water Commissioners on June 22. The lowest bidder was the Buffalo Dredging Co., of Buffalo, at $63,800. Other bids received were Read-Coddington Engineering Co., $68,450; A. F. Chapman Co., Buffalo, $72,500; Central Dredging Co., of Cleveland, Ohio, $99,900.

ALBANY, N. Y.—The bids received by the Board of Contract and Supply on June 21 for 150 net tons of 6-in. pipe for the Bureau of Water were: U. S. Cast-Iron Pipe & Foundry Co., 71 Broadway, New York, $22.95 per ton, days to complete, 30; C. Millar & Sons Co., Utica, N. Y., $22.50 per ton; 20 days. Camden Iron Works, Camden, N. J., $23.30 per ton; 21 days. The contract was awarded to C. MILLAR & SONS CO., of Utica, N. Y. Harry J. Deutchbein is Supt. Water Bureau.

NEW YORK, N. Y.—Bids were received as follows on June 23 by John H. O'Brien, Comr. Water Supply, Gas and Electricity for furnishing and delivering double nozzle standard N. Y. hydrants and repair parts for the same: Kennedy Valve Co., 57 Beekman St., $6,607; John Fox & Co., $6,875; Champan Valve Co., $6,982; M. J. Drummond, $6,905; A. P. Smith Mfg. Co., Newark, N. J., no total.

Bids were also received for hauling and laying water-mains and appurtenances in Kings Highway, Ave. L, East 36th St. and East 32d St., Boro. Brooklyn; Murphy Bros., 25th and Cropsey Ave., Brooklyn, $6,086; John J. Cashman, $8,104; Newman & Carey Co., $6,662; Robert Carter & Co., $6,666; Goodman Contracting Co., $9,330; James Kelly, $6,468; George H. Gifford, $7,364; Joseph Cripple and Michelo Distepens, $7,010.

NEW YORK, N. Y.—Bids are asked by the Board of Water Supply until 11 a. m., July 20, for Contract 39, for furnishing and installing two 12,500,000-gallon steam turbo-turbine pumps, two 225-HP. water-tube boilers, and all accessories, at Jerome Ave. pumping station, Boro. of The Bronx, New York City.

MOUNT KISCO, N. Y.—The following bids were received on June 23 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing all the labor and materials required to construct and erect a pumping station and sewage disposal plant at the village of Mount Kisco: J. W. Keller, 738 Broad St., Newark, N. J., $62,590; Merrill Ruckgaber Co., 50 Church St., New York, $74,950; Ammana & Lyons, $81,366; Fred T. Ley, 29 Broadway, New York, $84,862; Bunting-Bull Co., 1 Madison Ave., New York, $90,532; Kelly & Kelley, 45 E. 42d St., New York, $65,720; New York & Portchester Contracting Co., $84,875; T. N. McLeod, 90 West St., New York, $68,899; Charles E. Frazer & Co., $78,813; Clinton Beckwith Co., $78,476.

CRESSON, PA.—Contract for the new reservoir of the Ivy-View Water Co. has been let to D. F. O'ROURKE, of Altoona. Work will be commenced at once. The new reservoir will have a capacity of 30,000,000 gallons and will be located on Carnegie Hill.

*CLEARFIELD, PA.—Contracts have been awarded as follows by the Clearfield Water Co., J. B. Nevling, Secy., for building a storage and distributing reservoir on Moose Run, with accessories, bids received on five different propositons as follows: (a) Moose Run reservoir with rubber core wall, (b) Moose Run reservoir with concrete core wall, (c) distributing reservoir, (d) distributing reservoir with (a), (e) distributing reservoir with (b): To AHRENS CONSTRUCTION CO., INC., Lewistown, Pa., for (b) at $22,136; to VIPOND CONSTRUCTION CO., Altoona, Pa., for (c) $10,870. List of bidders noted last week.

*READING, PA.—Bids were received by the Board of Water Commissioners, on June 22, separately, for the following work: (a) relining and covering Buttonwood St. reservoir, capacity 1,000,000 gallons; (b) covering Penn St. reservoirs, with concrete vaulting, capacity 5,800,000 gallons; (c) building Glen Gery dam, 8½ to 11 ft. high, 200 ft. long; building brick stable and wagon house, 22 × 132 ft. 9 ins. We are officially advised that contracts have been awarded as follows: (a) to HORACE FEHR and JAMES O'ROURKE, Reading, Pa., at $13,692; (b) to same, at $52,992; (c) to CARL R. CAMP, Montrose, Pa., at $6,540. Lincoln S. Ramsey is Secy.

*WASHINGTON, D. C.—Bids were received as follows on June 28, by the Commissioners of the District of Columbia, for furnishing a quantity of c.-i. pipe, 3-in. to 12-in., and 16-in. to 36-in.: Standard Cast-Iron Pipe & Foundry Co., Bristol, Pa., $51.48 per ton; Glamorgan Pipe & Foundry Co., Lynchburg, Pa., $53.43; U. S. Cast-Iron Pipe & Foundry Co., Philadelphia, $47.61; Builders' Iron Foundry, Providence, R. I., 3-in. to 12-in., $20.85; 16-in. to 36-in., $39; Lynchburg Foundry Co., Lynchburg, Va., 3 to 12-in., $51; 16 to 36-in., $62.20.

BARTON HEIGHTS (Richmond post-office), VA.—The city has awarded contract at $3,296 to I. J. SMITH & CO., of Richmond, for the construction of a 250,000-gallon reservoir. Howard Whitlock is Engr.

MARTINSVILLE, VA.—The city contemplates the installation of a filtration plant.

FORT OGLETHORPE (Dodge post-office), GA.—J. Fenton and J. N. McDonald, East Chattanooga, Tenn., are the lowest bidders for sinking a 10-in. tubular well here. Capt. M. W. Rowell is Constructing Q. M., U. S. A.

LAFAYETTE, ALA.—It is proposed to construct water-works here. Nothing definite has yet been done.

NASHVILLE, TENN.—The contract for laying a water main to West Nashville has been awarded to F. T. LEWIS & CO., 61 Arcade St., at $18,350.

LOUISVILLE, KY.—A permit was issued on June 17 to the Louisville Lighting Co. to build a concrete reservoir at 15th and Magazine Sts. It is to be 130 × 90 × 56 ft., and is to cost $10,000. The NATIONAL CONCRETE CONSTRUCTION CO. has charge of the work and expects to have it completed by the middle of August.

LOGAN, OHIO.—Bids will be received until July 10 by the Board of Public Affairs, M. E. Moe, Clk., for furnishing material and extending the water system.

DAYTON, OHIO.—Contracts for 1,000 meters of 5-8-in. cap. and 50 meters at 3-4-in. cap., have been awarded to the HENRY WORTHINGTON CO., of New York, and 25 meters of 1-in. cap. to the PITTSBURG METER CO., East Pittsburg, Pa.

WAUKEGAN, ILL.—LEE McDONOUGH has been awarded contract for laying 1,800 ft. of water-main in Belvidere St.

SPOONER, WIS.—Bids are asked until 8 p. m., July 5, by John Stewart, Village Clk., for extending water mains to include 3,700 ft. of 4-in. and 300 ft. of 6-in. water main.

MARSHALLTOWN, IOWA.—The following are the bids opened on June 14 for an elevated steel tank, 105 ft. high and holding 100,000 gallons of water: Chicago Bridge & Iron Works, Chicago, Ill., $8,800; A. F. Shorthill Co., Marshalltown, $9,150; Des Moines Bridge & Iron Co., Des Moines, $8,440.

MOORHEAD, MINN.—JAMES KENNEDY, Fargo, N. Dak., has been awarded contract at $5,480, for furnishing and installing 335 ft. of 8-in., 3,809 ft. of 6-in., and 1,778 ft. of 4-in. water mains, etc.

KENNARD, NEB.—The NATIONAL CONSTRUCTION CO., South Bend, has been awarded contract, at $6,631, for constructing a complete water-works system for this city. Bids were opened on June 15.

GREGORY, S. DAK.—Bids will be received by the city until July 5 for the construction of water-works. Estimated cost, $4,500.

CHILDRESS, TEX.—The Attorney-General has approved the issue of $35,000 of water bonds.

LUFKIN, TEX.—The city has awarded contract to KIT McCONNICO, Lufkin, for constructing a reservoir 1,000 ft. wide, one-half mile long and 20 ft. deep. The contract calls for clearing space for reservoir, excavating same and constructing dam. A pumping station will be installed and water piped to the city, a distance of three miles.

MOUNDS, OKLA.—This place has voted $20,000 for the construction of a water system.

GREELEY, COLO.—James T Eagen, 1535 Broadway, Denver, Colo., will reclaim 1,500 acres of desert land in the extreme eastern part of Weld County by building two reservoirs. Each will have a capacity of 5,500,000 cu. ft.

DENVER, COLO.—Contracts were awarded on June 17, by the Denver Reservoir Irrigation Co. to the KENIFICK-QUIGLEY-RUSSELL CONSTRUCTION CO., of Kansas City, Mo., for the enlargement of the Barr lake dam and the construction of 40 miles of canals. The work will cost $500,000. The contract provides for raising the dam ten feet, which will give a storage capacity of 10,000 acre-ft. and will bring under irrigation a large tract of new land in the Denver-Greeley valley irrigation district.

SUNNYSIDE, WASH.—The Secretary of the Interior has authorized the Director of the Reclamation Service to suspend the contract with the Standard Building Co., San Francisco, Cal., for the construction of the Sulphur Creek wasteway in connection with the Sunnyside irrigation project, Washington.

Bids are asked until 2 p. m., July 30, at the office of the Reclamation Service, Miller Building, North Yakima, Wash., for the construction of Sulphur Creek wasteway near Sunnyside. Specifications are on file at the office of Engineering News, New York.

LA GRANDE, ORE. — The AMERICAN LIGHT AND WATER CO., Scarritt Bldg., Kansas City, Mo., has been awarded contract for constructing a system of water-works here. Cost, $140,000.

SAN FRANCISCO, CAL.—Five bids were received on June 16 as follows, to furnish gate valves to the city for the fire protection system by the Board of Public Works: Pittsburg Valve Co., $342,334; Union Iron Works, $453,472; Crane Co., $469,061; Pelton Water-Wheel Co., $398,698; Lally Co., $421,855.

MADERA, CAL.—The Board of Trustees will receive bids until July 19, for the construction of a complete municipal water supply system. F. E. Smith is Town Engr.

SAN DIEGO, CAL.—See item under Sewerage.

*NEWMAN, CAL.—Bids will be received by the Newman Water-Works Co., E. S. Wangenheim, Pres., at the office of the company, Newman, Cal., until 4 p. m., July 10, for the following work: Furnishing and erecting a steel tower, 100 ft. high and a steel tank of 100,000 gallons capacity; furnishing and erecting a reinforced-concrete reservoir of 100,000 gallons capacity; laying 5,000 ft. 4-in. and 1,000 ft. 6-in. pipe. Charles E. Sloan is Consulting Engr. Plans and specifications are on file at the office of Engineering News, New York.

*PETERBOROUGH, ONT.—Contract for concrete dam, pump house foundations, wheel pits, etc., has been awarded to the BISHOP CONSTRUCTION CO., of Montreal, Que. The contract for one unit of pumps of 3,000,000 gallons capacity with turbine, has been awarded to the WILLIAM HAMILTON CO., of Peterborough, at $12,900.

YORKTOWN, SASK. — The WESTERN CONSTRUCTION CO., of Regina, has secured contract for extensions to the water-works and sewer systems at $16,032.

GUAYAMA, PORTO RICO.—Bids received on June 14 by the Porto Rico Irrigation Service for the Patillas Canal are given under U. S. Possessions.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

FORT McKINLEY (Portland post-office), ME.—WORSTER & WILSON, Portland, have been awarded contract for extending the sewer lines here.

WINTHROP, MASS.—Bids will be received until 8 p. m., July 6, by the Selectmen for constructing sewers and drains in various streets.

TROY, N. Y.—Bids will be received by the Board of Contract and Supply until 11 a. m., July 2, for constructing a vitrified drain pipe sewer in the alley, from Fourth to Fifth Sts., between Fifth and Sixth Aves. James M. Riley is Secy.

OSWEGO, N. Y.—ANTHONY SPOSATO, Syracuse, N. Y., has been awarded contract by the city for the construction of a sewer in East Mitchell, between Ninth and Tenth Sts.

NEW YORK, N. Y.—Bids will be received until 2 p. m., July 6, by John F. Ahearn, Pres. Manhattan Boro., for sewers in portions of West 156th St. and Third Ave. and outlet sewer at the foot of East 156th St.

NEW YORK, N. Y.—Bids asked by John F. Ahearn, Pres. Manhattan Boro., until 2 p. m., July 8, for furnishing all the labor and material required for sewer and appurtenances in West 156th St. between Harlem River and Eighth Ave.

NEW BRIGHTON (S. I.), N. Y.—Bids will be received until noon, July 6, by George Cromwell, Pres. Richmond Boro., for constructing 1,134 lin. ft. 2-ft. 2-in. 3-ft. 3-in. reinforced-concrete sewer in a portion of New York Ave., Sewerage District No. 1, sanitary sewer in Richmond Turnpike, combined sewer in Stuyvesant and Hatfield Places and in New York Ave., in all 4,513 lin. ft. 6, 8, 10, 12, 15 and 20-in. salt glazed vitrified pipe, etc.

RUTHERFORD, N. J.—Bids will be received until July 2 by the Borough Council for constructing a main outlet sewer in Pierrepont Ave. F. A. Stedman is Boro. Clk.

TRENTON, N. J.—Bids are asked by the Common Council until 8 p. m., July 6, for the construction of a sewer in Garfield Ave. Harry B. Salter is City Clk.

DUNMORE, PA.—Contract for constructing sewers in Section R of the Second Sewer District, bids opened on June 15, has been awarded by the Borough to SABATERSERO, of Dunmore, at $14,[illegible]. C. H. Genter is Boro. Secy.

PHILADELPHIA, PA.—We are officially advised that bids were received on June 17 by the city for Schedule "B," main sewers, etc. Contracts have been let as follows: Cottman St. sewer between Delaware River and Tacony St., to R. P. BENNIS, Chew and Price Sts., Philadelphia, 12 months, 1,440 ft. of 9 ft. × 6 ft. 9 in. reinforced-concrete sewer at $18.90 per ft; 150 yellow pine piles at $8 each; 9,000 ft. yellow pine timber at $35 per 1,000 ft. B. M.; Gunner's Run relief sewer in Indiana St., to LOMBARDI & PASCUZZI, 601 Betz Bldg., 12 mos., brick sewer, 250 ft. of 10-ft. diameter in tunnel at $52 per ft.; 100 ft. of 10-ft. diameter in cradle at $36.70 per ft.; 1,000 ft. of 10-ft. diameter in rock at $38 per ft.; Shunk St., from Front to Fifth Sts., to CANTRELL CONSTRUCTION CO., 230 South Fourth St., 12 mos (brick sewer), 1,485 ft. of 6-ft. 6-in. diameter in cradle at $18.45 per ft.; 450 ft. of 6-ft. diameter in cradle at $14.92 per ft.; 1,950 yellow pine piles at $2.64 each; 165,000 ft. yellow pine timber at $41.25 per 1,000 ft. B. M.; Wissahickon high-level cut-off sewer in Stokley St., to DAVID McMAHON, East Chelton Ave., 12 mos, brick sewer, 2,327 ft. of 6-in. diameter in tunnel at $36.50 per ft.; Schedule "D," sewers, inlets for Market St., to the MILLARD CONSTRUCTION CO., 704 Pennsylvania Bldg., at $6,000.

*INDIANA, PA.—We are officially advised that contract has been awarded to C. A. MALONE, Hollidaysburg, Pa., by the borough for laying 2,317 ft. of 12-in., 4,045 ft. of 10-in., 4,820 ft. of 8-in., and 4,995 ft of 6-in. pipe sewers, eleven manholes and eleven flush tanks at $10,962. Bids were opened on June 21. Thomas Pealer is Boro. Engr.

*DOVER, DEL.—See item under Streets and Roads.

WASHINGTON, D. C.—Bids were received as follows on June 22 by the Commissioners of the District of Columbia for the construction of sewers as follows: (a) W. F. Brenizer & Co., (b) James Coyle, (c) H. G. Gummel, all of Washington, (d) Taylor, Sullivan & Lene, Alexandria, Va.: Sewer A, excavation, (a) 50 cts., (b) 50 cts., (c) 60 cts., (d) 63 cts; sewer brick masonry, (a) $16, (b) $14, (c) $14, (d) $15; 18-in. diameter pipe, (a) 83 cts., (b) 90 cts., (c) 85 cts., (d) 80 cts.; 12-in. pipe, (a) 70 cts., (b) 70 cts., (c) 62 cts., (d) 68 cts. Sewer B, excavation, (a) 95 cts., (b) 80 cts., (c) 80 cts., (d) 75 cts.; sewer brick masonry, (a) $16, (b) $20, (c) $15, (d) $15; 10-in. pipe, (a) 70 cts., (b) 80 cts., (c) 58 cts., (d) 58 cts. Sewer C, excavation, (a) 95 cts., (b) 90 cts., (c) 80 cts., (d) 75 cts.; sewer brick masonry, (a) $16, (b) $19, (c) $15, (d) $15; 18-in. pipe, (a) $1, (b) $1.20, (c) 95 cts., (d) 80 cts.; 12-in. pipe, (a) 90 cts., (b) 80 cts., (c) 70 cts., (d) 60 cts.; 10-in. pipe, (a) 70 cts., (b) 70 cts., (c) 60 cts., (d) 50 cts. Sewer D, excavation, (a) $1.40, (b) $1, (c) 90 cts.; sewer brick masonry, (a) $16, (b) $20, (c) $14; 15-in. pipe, (a) $1, (b) $1, (c) 80 cts.; 15-in. pipe, (a $1, (b) $1, (c) 80 cts.; 12-in. pipe, (a) 85 cts., (b) 90 cts., (c) 62 cts.; 10-in. pipe, (a) 70 cts., (b) 85 cts., (c) 56 cts.

Contracts have been awarded, bids opened on June 14, by the Commissioners of the District of Columbia, for constructing sewers as follows: To W. E. BRENIZER CO., of Washington, for Missouri Ave. trunk sewer, $12,760; extension of Water and L Sts. sewer, $6,467; Luzon Ave. sewer, $7,326; for seawall front of sewage pumping station, $7,185.

ENSLEY, ALA.—C. M. BURKHALTER, of Birmingham, has secured contract for constructing 1,830 lin. ft. of 7-ft. storm sewer of monolithic concrete, including excavation, manholes, inlets, etc., at $12,[illegible].

OXFORD, OHIO.—Bids are asked until noon, July 17, by the Board of Trustees of Miami University, for furnishing materials and for laying sewerage connections from the buildings on the campus of the University to the Oxford sewer system.

CINCINNATI, OHIO.—THOMAS J. MALONEY has been awarded contract at $7,730 for the construction of a sewer in Herschell St., from Linwood Ave. to Observatory, and McCARTHY BROS. for the construction of a sewer in Wehrman Ave. and Fredonia St.

HAMILTON, OHIO.—Bids will be received by the Board of Public Service until noon, July 8, for furnishing the necessary material and performing the necessary labor for the construction of storm sewers in Front St., Hanover St., Washington St., Walnut

St. and Chestnut St. in accordance with plans and specifications on file in the office of the City Engineer. Chr. Pabst is Secy.

SHELBYVILLE, IND.—Bids will be received by Harry J. Clark, City Clk., until 6 p. m., July 20, for the construction of a sanitary trunk sewer system.

KOKOMO, IND.—Bids will be received by the Board of Public Works until 10 a. m., July 7, for constructing the "X" sewer. W. T. Mack is City Clk.

Bids will be received by the Board of Public Works until 10 a. m., July 16, for extension to the Crawford extension of the Danner sewer.

SOUTH BEND, IND.—The Board of Public Works has awarded contract for the construction of the Meade, Huran and Olive St. trunk sewer to O'SHEA & O'SHEA, of Hammond.

UPPER ALTON, ILL.—See item under Streets and Roads.

LAKE CITY, IOWA.—Bids will be received until July 7 by the Council for an 8-in. vitrified pipe sewer in a portion of Illinois St. J. M. Fickle is City Clk.

COUNCIL BLUFFS, IOWA.—A. E. WICKHAM & CO., city, has been awarded contract for the construction of 2,000 ft. of 6-in. pipe sewer, 3,200 ft. of 8-in. pipe sewer and 1,000 ft. of 10-in. pipe sewer.

ST. PAUL, MINN.—Contract for constructing the Prior Ave. sewer system was awarded on June 15 by the city to the GENERAL CONTRACTING CO., of Minneapolis, at $61,900. It will include 4,639 lin. ft. of reinforced-concrete sewer, 36 to 42-in., and 8,594 lin. ft. vitrified pipe, 9 to 30-in.

OMAHA, NEB.—JAMES JENSEN has been awarded contract for constructing the extension to the North Omaha sewer from 29th and Fort Sts. north and east for eight blocks. The sewer will cost about $50,000 and will be of brick.

RUGBY, N. DAK.—Bids are asked until 8 p. m., July 5, by the City Clerk, for constructing a sewer system.

FORT STEVENS, ORE.—E. GUSTAFSON, Astoria, Ore., has been awarded contract for installing sewer connections at Fort Stevens.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

PEMBROKE, N. H.—EDWARD ADAMS, North Andover, Mass., has been awarded contract at $5,215, for constructing a bituminous macadam road in this town.

CONCORD, N. H.—Bids are asked until 3 p. m., July 8, by A. W. Dean, State Engr., Concord, for surfacing with gravel in the town of Merrimack.

BOSTON, MASS.—Bids are asked by Guy C. Emerson, Supt. of Sts., until noon, July 6, for constructing a macadam roadway on two streets and constructing artificial stone sidewalks on a portion of Penhollow St.

Guy C. Emerson, Supt. of Sts., has awarded contract to the BARBER ASPHALT CO., 30 Church St., New York, for asphalt on Beacon St., between Dartmouth and Fairfield Sts., at $12,768, the lowest of three bidders.

BOSTON, MASS.—Bids will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., July 24, for constructing pavements at the Navy Yard, Boston. Specifications are on file at the office of Engineering News, New York.

PEMBROKE, MASS.—Bids were opened on June 14 as follows for road improvement in the town: (a) Lane Construction Corporation, Meriden, Conn.; (b) M. McCone, Dover, N. H.; (c) Edward Adams, North Andover, Mass.; (d) Fred E. Ellis, Melrose, Mass.; (e) Ahern Bros., Plymouth, N. H.; (f) P. A. McIntyre, 168 River St., Mattapan, Mass. Earth, 150 cu. yds., (a) $1, (b) 50 cts., (c) 50 cts., (d) 50 cts., (e) 64 cts., (f) 58 cts.; borrow, 200 cu. yds., (a) 75 cts., (b) 60 cts., (c) 90 cts., (d) 70 cts., (e) 63 cts., (f) 74 cts.; broken stone, 1,800 tons, (a) $2.14, (b) $1.90, (c) $2.20, (d) $2.37, (e) $2.10, (f) $2.27; oil, 8,000 gallons,(a) 15 cts., (b) 14 cts., (c) 10 cts., (d) 14 cts., (e) 14 cts., (f) 15 cts.; resurfacing, 1,000 sq. yds., (a) 3 cts., (c) 20 cts., (d) 7 cts., (e) 30 cts., (f) 23 cts.

HARTFORD, CONN.—Contracts for state road work, bids for which were opened by the State Highway Commissioner on June 25, have been awarded as follows: Town of Wolcott, 1,500 lin. ft. of grading and rock blasting on the Meriden Turnpike, to AHERN BROS., Norwich, $5,983.95 with 70 cts. per sq. yd. for cobble gutters. Other bidders were: Pierson Engineering & Construction Co., Bristol, $11,495 and 50 cts.; Donahue Bros., Middletown, $14,400 and 65 cts.; Goodman & Trumbull, Litchfield, $11,-600 and 70 cts.; C. W. Tryon, Meriden, $8,500 and 50 cts.; town of Morris, 2,200 lin. ft. grading, including one 15-in and one 12-in. pipe culvert on Bantam Lake Road, to GOODMAN & TRUMBULL, Litchfield, $2,-400 and 30 cts. per lin. ft. for railing.; Joseph Mascetti, Torrington, bid $4,275 and 35 cts.; 1,900 lin. ft. grading, including one 18-in. tile culvert on Wigwam Reservoir Road, to same contractor; town of Wallingford, 3,300 lin. ft. of macadam telford, including rubble drain and railing on the East Center Road, to LEONARDO BUZIO, Meriden, at $1.43 for macadam and $2.18 for telford, 75 cts. for drain and 40 cts. for railing. Other bidders were: G. J. Cellilli, Springfield, Mass., $1.97, $2.68, 87 cts. and 35 cts.; O. T. Benedict, Pittsfield, Mass., $2.25, $2.85, $1 and 45 cts.; Donahue Bros., Middletown, $2.14, $2.68, $1.08 and 29 cts.; A. D. Ambrosia & Co., Hartford, $1.74, $2.68, 74 cts. and 34 cts.; C. W. Tryon, Meriden, $2.18, $2.68, $1.19 and 50 cts.; 1,785 lin. ft. macadam on the New Haven Road, including cobble gutters, to DONAHUE BROS., Middletown, at $1.64 for macadam and 65 cts. per sq. yd. for gutters. Other bidders were: L. Suzio, $1.85 and 80 cts.; G. J. Cellilli, $1.94 and 85 cts.; O. T. Benedict, $1.89 and 75 cts.; A. D. Ambrosia & Co., $2.04 and 58 cts.; C. W. Tryon, $1.89 and 65 cts.; town of Scotland, 2,950 lin. ft. of grading, including a 15-in. tile culvert and a concrete arch culvert, to PIERSON ENGINEERING & CONSTRUCTION CO., Bristol, at $5,500.

Plans for 5,500 lin. ft. of macadam road in the town of Orange have been received from A. B. Hill, Engr.

HARTFORD, CONN.—Bids for state road work will be received by the State Highway Commissioner, Capitol, until 2 p. m., July 6, for the following: Town of Manchester, 4,175 lin. ft. macadam on Oakland St., and 4,700 lin. ft. macadam on Charter Oak St.; town of Bloomfield, 15,920 lin. ft. macadam-telford on the Hartford Turnpike, including 16 24-in., two 15-in., five 18-in., three 20-in. and two 12-in. tile culverts.

*BRIDGEPORT, CONN.—Bids are asked until 8 p. m., July 9, at the City Clerk's office by the Aldermanic Committee on Streets and Sidewalks for furnishing street paving brick to lay about 2,550 sq. yds. of permanent pavement. M. F. McKenna is City Engr.

BUFFALO, N. Y.—Bids will be received until July 7 by Francis G. Ward, Comr. Pub. Wks., for repaving Main St. and Elmwood Pl. and paving Wood Ave. and Goethe St.

UTICA, N. Y.—Contracts for constructing 26 pieces of sidewalk have been let as follows: Artificial stone walks, to N. D. PETERS, at 15 cts per sq. ft.; natural stone walks, G. B. ALLEN, at 16 and 17 cts. per sq. ft.; ALEXANDER McMULLEN, at 16 and 17 cts. per sq. ft.

AMSTERDAM, N. Y.—Contract for paving East Main St., bids opened on June 15, has been awarded to MICHAEL F. DOLLARD, of Albany, at $20,700.

LITTLE FALLS, N. Y.—Contract for 3,500 sq. yds. of brick paving, bids opened on June 11, has been awarded to HALLINAN BROS., of Little Falls, at $8,984. O. J. Dempster is City Engr.

ALBANY, N. Y.—The bids received by the Board of Contract and Supply on June 21 for the improvement of Marshall St., from Second Ave. to Delaware Ave., were: Holler & Shepard, Rochester, N. Y., $11,214; Edward F. Dillon, Albany, $11,290; Mulderry Bros., Albany, $11,416. Contract was awarded to HOLLER & SHEPARD, Rochester, at $11,214.

On the same day bids were also received by the Board for the improvement of Slingerland St., from Second Ave. to a point 725 ft. northerly, as follows: Michael F. Dollard, Albany, $9,148; Holler & Shepard, Rochester, $9,222; Edward F. Dillon, Albany, $10,005; Mulderry Bros., Albany, $9,218. Contract was awarded to MICHAEL F. DOLLARD, Albany. Walter Melius is City Engr.

*WATERTOWN, N. Y.—Bids will be received by the Board of Public Works at the office of the City Engineer until 8 p. m., July 9, for the construction of about 4,500 sq. yds. of pavement on a portion of LeRay and Main Sts., including the street intersection of LeRay and Main Sts., together with the necessary curbing, grading, culverts, sewers, catch-basins and all other work in connection therewith for the proper completion of the pavement. Bids will be received for each of the following kinds of pavement: Medina sandstone block pavement on concrete base, vitrified paving brick or block on concrete base. E. W. Sayles is City Engr.

CATSKILL, N. Y.—Bids will be received by the Board of Trustees until 8 p. m., July 14, for laying and construction of approximetely 4,703 sq. yds. of vitrified brick paving in Main and Bridge Sts. Also the resetting of approximately 2,200 lin. ft. of blue stone curbing.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 2 p. m., July 6, for regulating, grading, curbing and flagging, paving and repairing, etc., various streets.

BROOKLYN, N. Y.—Bids were received as follows on June 23 by Bird S. Coler, Boro. Pres., for regulating and grading Flatbush Ave. as extended from Nassau St. to Fulton St. and repaving Bridge St., from Tillary St. to Nassau St., Chapel St., from Flatbush Ave. extension 150 ft. westerly, Concord St., from Flatbush Ave. extension to Duffield St., Duffield St., from Johnson St. to a point 280 ft. north of Tillary St., from Bridge St. to Gold St.: Henry P. George, 49 Washington St., Richmond Hill, $25,903; James Kelly, $37,264; Ryan Parker, $36,898; Richard L. Russell, $29,670; Newman & Carey, $30,596; Frank A. Cunningham, $31,377.

ELMIRA, N. Y.—We are officially advised that pavement bids were opened on June 2 and contracts for paving were awarded to COSTELLO & NEAGLE and the McGREEVY, McGUIGAN & BAUM CONSTRUCTION CO., both of Elmira. There will be three kinds of brick used in the pavements, the Porter "Toronto," Corning and Clymer. The bid on Corning block was $2 per sq. yd., on the Porter "Toronto," $2.15 per sq. yd., and on the Clymer, $2.22.

ATLANTIC CITY, N. J.—Bids are asked until 11 a. m., July 7, by E. D. Rightmire, County Engr., 108 Bartlett Bldg., Atlantic City, for grading and gravelling the Chestnut Neck Road.

PARKER & KING, West Creek, N. J., have secured contract at $18,199, for grading and graveling eight miles of road for the county. Bids were opened on June 9.

TRENTON, N. J.—Bids will be received until July 6 by Harry B. Salter, City Clk., for paving with sheet asphaltum on a concrete base a portion of Pearl, Tyler and Fall Sts., and for repaving with R. Y. Filbert improved waterproof filbertine paving cement a portion of Bank and S. Montgomery Sts.

NEW BRUNSWICK, N. J.—Contract for graveling the Deans-Franklin Park road was awarded on June 16 by the Board of Chosen Freeholders to the SUFFOLK COUNTY CONSTRUCTION CO., at $8,984. Morgan Larsen is County Engr.

PHILADELPHIA, PA.—Contracts were awarded on June 24 by George R. Stearns, Dir. Pub. Wks., to the FILBERT PAVING CO., for paving 22 out of 30 streets. The remaining eight streets went to the BARBER ASPHALT CO. The McNichol bids were from $1.34 to $1.44 a sq. yd. and the Barber bids from $1.49 to $1.55, respectively.

MOUNT CARMEL, PA.—The CORYELL CONSTRUCTION CO., of Williamsport, has secured contract for 10,047 sq. yds. of Clearfield clay work vitrified brick paving at $2.08 per sq. yd., and 704 sq. yds. White Haven curb at $1.10 per lin. ft. Total, $23,147. Other bids were: D. M. Rosser, Kingston, Pa., $23,504; Hayes & Clark, Danville, $22,614; D. D. Dyke & Co., Mount Carmel, $21,964; John Leffler, Hazleton, $23,609; Fendale, Kessler & Co., Mount Carmel, $23,171; George H. Meinholtz, Reading, Pa., and E. R. Reitz, Mount Carmel, Pa., $23,701.

ERIE, PA.—JOHN McCORMICK & SON has secured contract at $1.45 per sq. yd., for paving on East 13th St. with Class B asphalt, the work including Bessemer block gutters and artificial curbing.

McKEESPORT, PA.—Bids will be received by C. E. Soles, City Controller, until 4 p. m., July 6, for grading, curbing and paving Tenth St., from Walnut St. to Berlin St., with vitrified brick.

*DOVER, DEL.—Bids are asked by William H. Walker, Pres. St. and Sewer Commission, until 8 p. m., July 12, for street paving, sewers, curbing, etc. George L. Watson is Ch. Engr.

*HAVRE DE GRACE, MD.—E. M. Good, Lancaster, Pa., has submitted lowest bid at $21,128 for macadamizing 2½ miles of streets. Bids were opened on June 15.

THOMAS, W. VA.—Bids are asked by the city until July 7 for paving East Ave. and macadamizing Spruce St. George Martin is Mayor.

*KENOVA, W. VA.—Bids will be received by the Mayor until 6 p. m., July 26, for the construction of about 28,254 sq. yds. of vitrified brick or block pavement, about 19,000 lin. ft. of concrete curb and gutter, and 1,600 ft. of margin curb, brick to be laid on a 4-in. concrete base. Plans and specifications can be seen at the office of the Mayor, and at the office of M. W. Venable, Charleston, W. Va.

ANDREWS, N. C.—HART & ABEE, Hickory, N. C., have secured contract at 50 cts. per sq. yd., for macadamizing by the Highway Commissioners. The contract amounts to about $25,000.

AUSTELL, GA.—Bids will be received until July 5 by the Mayor and Council for constructing about 7,000 sq. ft. of concrete sidewalks on Mozeley St.

FORT PICKENS (Fort Barrancas postoffice), FLA.—Bids are asked until 11 a. m., July 8, by the Constructing Quartermaster, Fort Barrancas, for plank roads here.

TAMPA, FLA.—Bids are asked by the Hillsborough County Commissioners until noon, July 6, for hard surfacing about two miles of road, 12 ft. wide, average depth, 6 ins. E. J. De Vane is Chn.

EAST LAKE, ALA.—Contract for 39,000 sq. yds. of chert macadam, 3,900 sq. yds. cement sidewalks, 33,700 lin. ft. curb, bids opened on June 12, has been awarded by the city to WHEELER & WALL, of East Lake, for $38,323. T. E. Huey is City Engr.

SAINT BERNARD, LA.—The Police Jury has awarded contract, at $48,000, to NAT SCOTT, Saint Bernard, for the construction of eight miles of shell road.

NEWBERN, TENN.—The city will construct 3¼ miles of gravel streets and concrete walks.

NASHVILLE, TENN.—The Board of Public Works awarded contracts on June 17 for the construction of a quantity of granitoid curb and sidewalks. REED & CO. were awarded contracts for laying the sidewalks on Commerce st., from Seventh Ave. east to the alley, and on Sixth Ave., North, for 60 yds. in the vicinity of the intersection with Commerce St., at $1.45 per sq. yd. The contract for the combined curb and sidewalk and plain sidewalk on Seventeenth Ave., from Elizabeth St. to Edgehill Ave., was given to CURTIS & LESEUR at $1.43 per sq. yd. The same firm was awarded the contract for curbing on this street at 40 cts. per lin. ft.

The contract for laying sidewalks on both sides of Tremont St., from 16th Ave. to Cave, was awarded to GUS MADDEN at $1.45 per sq. yd.

LOUISVILLE, KY.—The Board of Public Works awarded contract on June 17 to G. W. GOSNELL & CO., of Louisville, for paving Swan and L Sts. with vitrified brick, at about $11,500.

AKRON, OHIO.—Bids will be received until July 6 by the Board of Public Service, Ray F. Hamlin, Secy., for paving portions of Broadway, Dodge Ave. and Quarry St.

COLUMBUS, OHIO.—HARTMAN STOCK FARM CO. has been awarded contract at $20,655, for constructing 1¼ miles of the Chillicothe Pike for the county, the work including fill and constructing 1¼ miles of road with macadam and tarvia. Bids were opened on June 18.

NEW MIDDLETOWN, OHIO.—Bids will be received until July 9 by the Trustees of Springfield Township at the office of L. W. Scholl, Township Clk., New Middletown, for constructing a macadam and brick road in said township.

SAINT CLAIRSVILLE, OHIO.—Contracts for brick paving, bids opened on June 11, have been awarded by the Board of Public Service as follows: To ARCHER & DAY, of Bellaire, 13,570 sq. yds. at $28,738, and to PETERS & PALMER, of Marietta, 13,300 sq. yds. at $28,291.

PIQUA, OHIO.—Bids will be received by the Board of Public Service, W. B. Mitchell, Clk., until July 14 for improving Caldwell St. by grading, curbing and paving with brick, asphalt filled macadam, Tarvia filled macadam, bituminous macadam or creosoted wood block; also paving Camp, Boone, North and Greene Sts. and Park Ave.

Bids were opened by the Board of Public Service on June 15 for improving High St. by grading, curbing, constructing culverts, drains and retaining walls and paving. JOHN WROE, of Dayton, secured the contract for Metropolitan brick paving, 14,740 sq. yds., and 900 lin. ft. sewer, at $23,488, and J. C. MERCER, of Piqua, secured contract for 6,-760 lin. ft. combination curb and gutter at 29½ cts.

GREENVILLE, OHIO.—G. H. HEFFNER & SON, of Celina, have been awarded contract for laying on Central Ave. 9,684 sq. yds. of Nelsonville block, 4 ins. thick on a 6-in. concrete base with 2-in. sand cushion at $1.32 per sq. yd., including 3,519 cu. yds. clay excavation at 30 cts. Other bids received, including successful bidder, were: G. H. Heffner & Son, Celina, $18,511; William McHugh, Springfield, $19,475; Kelley Bros., Portsmouth, $19,361; C. Hoolihan, Dayton, $19,582; Ferra, Stocker & Barry, Greenville, $20,380; J. O. Shoupe & Co., Dayton, $20,897; William J. Kernan & Co., Dayton, $20,376; W. M. Graham & Co., Columbus, $21,733. L. N. Jackson is City Engr.

CINCINNATI, OHIO.—Bids are asked until noon, July 9, by the County Commissioners, Fred Dreihs, Clk., for the following county work: Under Specifications No. 470, for the improvement of the Mohlenkamp Road at Second Hill east of Reading Pike, in Sycamore Township.

HICKSVILLE, OHIO.—Bids are asked until noon, July 8, by O. P. Bevington, Village Clk., for paving Main St. with vitrified brick or block.

CALDWELL, OHIO.—We are officially advised that contract has been awarded by James C. Wonders, State Highway Commissioner, to WILSON & YARDLEY, of Newark, Ohio, for State Aid road, Noble County, Highway "A," Caldwell and Belle Valley Road, at $12,416, using rolled stone foundation and sand filler.

ATHENS, OHIO.—Contract for construction of Highway "C," Athens and Chauncey Road, Section I, was awarded on June 23 by James C. Wonders, State Highway Comr., to JUNIPER & NIXON, of Athens, at $11,941.

DANVILLE, IND.—The Commissioners of Hendricks County are asking for bids for the paving of nine miles of streets in Danville under the 3-mile law.

BRAZIL, IND.—James L. Burnes, Audr., Clay County, will receive bids until July 12 for the construction of 9.074 miles of gravel road in Township 12.

KOKOMO, IND.—Bids will be received by the Commissioners of Howard County until 2 p. m., July 13, for the construction of a gravel road in Honey Creek Township. A. B. Easterling is County Audr.

BEDFORD, IND.—The Commissioners of Lawrence County will receive bids until 1 p. m., July 19, for the construction of the following macadamized roads: Rawlins Mill road, 6,920 ft. in length, in Shawswick Township; Hamels Mill road, 10,453 ft. in length, in Marion Township, and Shilo road, 13,900 ft. in length, in Indian Creek Township. W. G. Owens is Audr.

SCOTTSBURG, IND.—Bids will be received by the Commissioners of Scott County until 11 a. m., July 17, for the construction of 13,195 ft. of gravel road in Jennings Township and 10,580 ft. of gravel road in Johnson Township. Frank Gardner is County Audr.

PEORIA, ILL.—The Street and Alley Committee of Council has let the contract for curbing to SAAL & BROOKING and to JANSEL & ZOELLER, each firm contracting to lay the curbing at 25 cts. per ft.

BUSHNELL, ILL.—Bids will probably be asked in July for 1½ miles of brick pavement, on a 3-in. sand cushion, laid with concrete curb and gutter. W. H. Dawson is City Clk.

EAST ST. LOUIS, ILL.—Bids are asked by the Board of Local Improvements until noon, July 7, for the improvement of a portion of 14th St. by grading, curbing, paving with brick and sewering. Frank B. Hanna is Clk.

UPPER ALTON, ILL.—Bids will be received by the Board of Local Improvements until 8 p. m., July 12, for constructing 13,-985 sq. yds. of tar macadam pavement and 8,725 lin. ft. of concrete curb.

The Board of Local Improvements has ordered the Village Engineer to draw up plans and estimates for approximately three miles of vitrified brick paving on concrete base; also plans and estimates for two systems of sewerage emptying into septic tanks.

NEENAH, WIS.—EUL, COCHEMS & NEBEL, Sturgeon Bay, Wis., have secured contract at $15,988, for constructing about 9,-557 sq. yds. of tar macadam and 7,161 lin. ft. of curb and gutter.

DAVENPORT, IOWA.—Bids will be received until July 6 by the Board of Public Works, Thomas Murray, Chn., for paving with vitrified brick portions of three alleys, Eighth, Brown and 13th Sts., in all 8,154 sq. yds.

*GRINNELL, IOWA.—Bids will be received by the city until 7.30 p. m., July 6, for street improvements including 85,000 yds. of Warren's bitulithic pavement laid on 5-in. concrete base, and 55,000 ft. combined concrete curb and gutter. Plans and specifications on file at this office. A. C. Harriman is City Clk.

ADA, MINN.—Bids are asked until July 12 by D. E. Fulton, County Audr., for constructing a portion of a state road.

GLENCOE, MINN.—Bids will be received, it is stated, by the Board of County Commissioners at office of F. D. Stocking, County Audr., until July 12, for grading and gravveling five state highways.

ALBERT LEA, MINN.—We are officially advised that bids were opened on June 22 by the city for about 28,088 sq. yds. of cre-

osoted wood block pavement as follows: General Construction Co., Minneapolis, Minn., $62,806; J. W. Turner Improvement Co., Des Moines, Iowa, $63,463; FIELDING & SHEPLEY, St. Paul, Minn., $61,950 (awarded contract); Forestal & Feyen, St. Paul, Minn., $73,379; Mulgrew & Boyce, Dubuque, Iowa, $71,496.

GRAND ISLAND, NEB.—Bids for 31,246 sq. yds. brick block paving, 700 ft. artificial stone curb, 420 ft. artificial stone gutter curb are asked by H. E. Clifford, City Clk., until 5 p. m., July 7. Estimated cost, $87,702.

RAPID CITY, S. DAK.—Bids are asked until 8 p. m., July 6, by A. K. Thomas, City Audr., for constructing cement sidewalks, crossings and culverts.

KANSAS CITY, MO.—The Board of Public Works received four bids for an asphalt repair plant on June 16. The plant accepted must be capable of 1,000 sq. yds. of asphalt a day. The bids follow: Iroquois Iron Works, Buffalo, N. Y., $36,800; Warren Asphalt Paving Co., Cambridge, Mass., $32,995; Hetherington & Berner, Indianapolis, Ind., $29,875; F. D. Cummer Sons Co., portable plant, $14,900. J. L. Darnell is City Engr.

BETHANY, MO.—We are officially advised that the city contemplates paving four streets with vitrified brick, about 8,000 sq. yds. William M. Irwin, Maryville, Mo., has been employed to prepare profiles, plans and specifications. J. B. McClure is City Clk.

EL PASO, TEX.—The El Paso County Commissioners have awarded contract for paving road from Ysleta to Clint, to DAILEY & CLARK, Alexandria, La., at $47,490.

GALVESTON, TEX.—Bids are asked until noon, July 31, by Capt. John C. Oakes, Corps Engrs., U. S. A., Galveston, for constructing concrete sidewalk, brick pavement and concrete curbing at Fort Crockett Reservation, Galveston.

SAN ANTONIO, TEX.—The Municipal Government of San Antonio has decided to establish its own street paving plant. In the future the city will do its own paving work. This policy has been adopted upon recommendation of Bryan Callaghan, Mayor, who has planned extensive municipal improvements. Formal announcement has been made that the city is in the market for an asphalt plant with a capacity of 1,200 to 1,800 yds. per day of ten hours. Estimated cost, about $14,000, laid down in San Antonio. It is probable that the Texas oil product, known as Texico, will be used for surface paving. The city has purchased several gravel pits, situated within the municipal limits. This insures sufficient material to macadamize the streets in the outer residence districts. It is planned by the Mayor and the City Council to pave with asphalt all of the streets within a half-mile radius of the center of the town. This work will be started as soon as the new asphalt plant is purchased and set up.

OKLAHOMA CITY, OKLA.—The city will receive bids until July 5 for paving, grading, curbing and draining various streets.

ALVA, OKLA.—The city has awarded contract to the HANSON PAVING CO., St. Joseph, Mo., for paving six miles of streets.

BELLINGHAM, WASH.—BOOKER, CAMPBELL & DICKINSON have been awarded contract by the city at $18,908, for paving Grand Ave., from Champion to Lottie Sts.

VANCOUVER, WASH.—Contract for paving over 25 blocks of streets in the city was let on June 15 to the CASCADE CONTRACT CO. by the City Council. The bid for paving with asphalt was $2 per sq. yd., and 40 cts. for square curbing, or 55 cts. for round curbing.

SALT LAKE CITY, UTAH.—Bids will be received until 4 p. m., July 9, by the Board of Public Works, H. G. McMillan, Chn., for constructing cement sidewalks in sidewalk extension Nos. 126 and 128, and for grading, curbing, guttering and paving the roadway and sidewalk with cement on a portion of Edison St. Louis C. Kelsey is City Engr.

SANDPOINT, IDAHO.—The citizens on June 10 voted to issue $10,000 of bonds for street improvements.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

LEWISTON, ME.—The construction on the new factory for the Hill Cotton Plant is to start at once. To provide power for this mill the present feeders from the canal will be tapped and two 36-in. water wheels installed. In addition to a 750-HP. engine is to be installed, which will obviate the necessity of shutting down for lack of water. The mill is located directly back of the present two and will connect them. It is to be six stories high, brick, 160 × 75 ft. The building of this addition will increase the capacity about 20,000 spindles and give employment to 400 more hands. It represents an outlay of about $300,000.

DOVER, N. H.—It is reported that the Pacific Mills, of Lawrence, Mass., which control the Cocheco Mills, of this city, intend to build a $2,000,000 cotton mill here.

NEW BEDFORD, MASS.—The Nashawena Cotton Mill has been staked out. It will be erected on land at the northwest corner of Belleville Ave. and Belleville Road, opposite the Nonquitt Mill. William Whitman, of Brookline, Mass., is the organizer, and he controls the Manomet Mill, capitalized at $2,000,000, and the Nonquitt Mill, erected two years ago, which has a capital of $1,200,000. The capital of the Nashawena Mill will be $2,500,000, and the equipment will consist of 125,000 spindles and 3,500 looms. The building will be 800 ft. long and 125 ft. wide, extending north and south along the Acushnet River, west of the Nonquitt Mill.

LOWELL, MASS.—Application has been made by the Massachusetts Mills for permission to build two mills on reclaimed land at the confluence of the Merrimack and Concord Rivers. One of the mills will front on the Merrimack River and the other on the Concord River. The specifications are as follows: For mill fronting on the Merrimack, for wheels and turbine, 328 × 48 ft., height 48 ft. For mill ,two stories high, addition to dye house, fronting on Concord River, 340 ft. long, with base of 92 ft. Concrete foundations and brick walls are the principal materials, and the cost is estimated at $20,000 for the Merrimack River, and $25,000 for the Concord River property.

WORCESTER, MASS.—The J. F. & W. H. Warren Co., leather manufacturer, Vine St., will build a factory near Bloomingdale Road. The plant will be larger than the present shop of the concern. The building will be three stories in height, of brick, 90 × 90. It will be of mill construction, with tar and gravel roof and will have steam heat, gas and electric light, with the latest factory plumbing, elevators, mill supplies, etc. Plans for the factory are being drawn by Fuller & Delano Co., Archs., 452 Main St., Worcester.

ROCKVILLE, CONN.—The Hockanum Mills, of Rockville, Conn., have plans prepared by Charles T. Main, Mill Engr. and Arch., 45 Milk St., Boston, for a dye house of one story, 194 × 75 ft. Regular mill construction is to be employed. The floor is to be concrete covered with vitrified brick. The dye kettles will rest upon hard pine beams supported by brick piers. The building is to be heated and ventilated by means of heating coils in connection with fan blowers. Among the main features will be 22 wooden ventilating stacks for taking care of the steam from the dye kettles.

HORNELL, N. Y.—Contracts have been let to S. L. TUCKER by the Morrill Hosiery Co. for the erection of the plant they are to establish in this city for the manufacture of silk hose. The plant will be located on Bank St. adjacent to the Shawmut tracks. The first building will be 200 × 80 ft., and of the saw-tooth pattern. Machinery is being purchased and the plant will be started as soon as the building is completed. E. D. Harrington is Pres. of the company and F. P. Merrill, of this city, Secy. and Treas. The factory will manufacture silk hosiery exclusively and will give employment to 100 men at first.

BUFFALO, N. Y.—The New York Central & Hudson River R. R. Co. will build an engine house, freight house and storage yard on a 10-acre site at Urban, French and Moselle Sts., in connection with the elevation of its belt line tracks through the northeast section of the city, to facilitate the handling of freight traffic to industrial plants on its lines in that locality. The site will be rock-filled to the level of the elevated tracks. Cost, with buoldings, $100,000. George W. Kittredge is Ch. Engr., Grand Central Station, New York.

The Buffalo Pen Co. will erect a 2-story factory, 30 × 80 ft., of brick, at Rano and Tonawanda Sts. and the D., L. & W. R. R. John Gabrielson is Pres., 133 Hunt Ave.

NIAGARA FALLS, N. Y.—It is stated a plant for the manufacture of shoes will be erected by the Niagara Falls Power Co. on its power lands and leased to the Green Bros. Shoe Co., of Fredericksburg, Va., whose factory at that place was destroyed by fire recently.

The Niagara Chemical Co. will add to its plant on Buffalo Ave. a 2-story experimental building, 52 × 118 ft., and a 2-story laboratory and office building, 40 × 104 ft.; both to be of brick, stone and structural steel construction. Cost, $27,000.

We are officially advised that FRANK SWEET, 540 Glenwood Ave., Buffalo, has secured the contract for an addition to the Development & Funding Co.'s plant at Niagara Falls, comprising steel work, sheet metal work and wood work.

NEW YORK, N. Y.—We are officially advised that the TURNER CONSTRUCTION CO., 11 Broadway, New York, has been awarded the contract for constructing the model factory No. 4, for the Bush Terminal Co., Brooklyn, N. Y. The building will be of reinforced concrete throughout, and will be 750 × 75 ft., five stories in height. Work will be undertaken at once.

The American Hard Rubber Co., 9 Mercer St., New York, is to build a 3-story brick factory, 42 × 100 ft., at College Point, on the south side of Third Ave., from Third St. to Fifth St.

Marvin, Davis & Turton, Archs., 1133 Broadway, have plans in progress for a lace manufacturing plant to be erected at 216th St., Bronx Boulevard and Odenville Ave., Williamsbridge, for the Vari Lace Mfg. Co.

(Continued on page 7.)

CONTRACT PRICES.

(denotes that this work is advertised in Engineering News.)*

BARGE CANAL.—Albany, N .Y.—Bids were received on June 22 by F. C. Stevens, Supt. Public Works, for Barge Canal Contract No. 30, as noted last week. Bids in detail were as follows: (A) Engineer's estimate; (B) The Maryland Dredging & Contracting Co., Baltimore; (C) The American Pipe & Construction Co., Philadelphia; (D) The Acme Engineering & Contracting Co., Schenectady::

		(A)	(B)	(C)	(D)
	Clearing (lump sum)	$1,000.00	$1,000.00	$1,200.00	$1,000.00
29,700	cu. yds. grubbing	.35	.35	.40	.40
5,005,000	cu. yds. excavation	.35	.40	.395	.375
100	M. ft. B. M. sheeting and bracing	50.00	50.00	50.00	50.00
1,000	lin. ft. round timber bracing	.20	.20	.24	.20
501,000	cu. yds. forming embankment	.15	.15	.18	.15
5,800	cu. yds. lining	1.25	1.25	1.50	1.25
300	cu. yds. puddle	1.50	1.50	1.80	1.50
37	M. ft. B. M. sawed lumber	55.00	55.00	60.00	55.00
19	M. ft. B. M. sawed lumber in lock needles	100.00	100.00	90.00	100.00
9	M. ft. B. M. white oak sawed lumber in miter sills and lock gates	100.00	100.00	100.00	100.00
28,600	lin. ft. foundation piles	.35	.35	.30	.40
166	M. ft. B. M. wooden sheet piling	55.00	55.00	50.00	60.00
8,000	sq. ft. first quality steel piling	1.50	1.50	1.50	1.50
110,000	sq. ft. second quality steel piling	.20	.20	.20	.20
34,100	cu. yds. second-class concrete	7.00	7.00	8.40	6.50
130	cu. yds. third-class concrete	6.50	6.50	7.50	6.50
860	cu. yds. second-class reinforced concrete	12.00	12.00	14.40	14.00
7	cu. yds. first-class masonry coping	30.00	30.00	35.00	30.00
18,400	cu. yds. dry retaining wall	2.75	2.75	3.30	3.00
94,200	cu. yds. wash wall				
3,800	sq. yds. first-class stone paving	2.50	2.50	3.00	2.50
340	sq. yds. second-class stone paving	2.25	2.25	2.70	2.25
900	sq. yds. third-class stone paving	2.00	2.00	2.40	2.00
170	sq. yds. cobblestone paving	1.50	1.50	1.50	1.50
2,300	cu. yds. first-class riprap	3.00	3.00	3.50	3.50
2,600	cu. yds. second-class riprap	2.75	2.75	3.00	3.25
1,780	cu. yds. third-class riprap	2.50	2.50	2.75	3.00
31,000	cu. yds. fourth-class riprap	2.25	2.25	2.50	2.50
891,000	lbs. structural steel	.045	.045	.05	.045
96,000	lbs. metal reinforcement	.035	.035	.04	.05
20,000	lbs. iron castings, plain	.035	.035	.04	.035
9,200	lbs. iron castings machined	.05	.05	.06	.05
260,000	lbs. metal in lock gates	.055	0.55	.05	.055
90,000	lbs. metal in buffer beams	.055	0.55	.05	.055
35,000	lbs. metal in lock valves	.09	.09	.10	.09
360,000	lbs. metal in guard gates	.055	.055	.05	.055
300	sq. yds. wood block pavement	2.75	2.75	2.75	2.75
280	sq. yds. wooden pavement, 2¾ ins. thick	2.75	2.75	3.00	2.75
900	sq. yds. wooden pavement, 3¾ ins. thick	3.00	3.00	3.50	3.00
3,500	lin. ft. wooden fence	.20	.20	.24	.20
980	lin. ft. lattice railing	1.75	1.75	2.10	1.75
	2 storehouses, each	850.00	850.00	1,020.00	850.00
	3 office buildings, each	250.00	250.00	300.00	250.00
	3 crab, each	400.00	400.00	400.00	400.00
18,900	lin. ft. repointing old masonry	.05	.05	.06	.06
	Maintaining highway traffic, lump sum	4,500.00	4,500.00	5,400.00	5,000.00
	Maintaining navigation, lump sum	500.00	500.00	600.00	500.00
	Cofferdams, pumping, bailing and draining, lump sum	17,000.00	17,000.00	20,400.00	17,000.00
	Raising bridge superstructure, lump sum	1,000.00	1,000.00	1,200.00	1,000.00
	Deduct price to be paid to the State of New York for bridge superstructures in place, which are to be removed by the contractor without expense to the State, lump sum	500.00	500.00	400.00	500.00
	Deduct price to be paid to the State of New York for buildings in place which are to be removed by the contractor without expense to the State, lump sum	700.00	700.00	560.00	700.00
	Totals	$2,650,500	$2,905.250	$2,870,291	$2,591,088

BARGE CANAL.—Albany, N. Y.—The itemized prices of the bids received on June 22 by F. C. Stevens, Supt. Public Works, for Barge Canal Contract No. 42, for constructing 8.96 miles of canal from the Herkimer-Oneida County line to a point east of Oriskany Road were: (A) Engineer's estimate; (B) John Marsch, 804 Borland Building, Chicago, Ill.; (C) Shanly-Morrissey, Inc., 527 Fifth Ave., New York; (D) M. A. Talbot & Co., Baltimore, Md.; (E) Acme Engineering & Contracting Co., New York and Schenectady, N. Y.; (F) Scott Bros., Baldwinsville, N. Y.

		(A)	(B)	(C)	(D)	(E)	(F)
	28 acres clearing	$25.00	$28.00	$25.00	$25.00	$25.00	$25.00
27,400	cu. yds. grubbing	.30	.32	.25	.30	.35	.30
2,786,300	cu. yds. excavation	.22	.2325	.19	.211	.27	.205
250	M. ft. B. M. sheeting and bracing	50.00	55.00	50.00	50.00	50.00	40.00
646,800	cu. yds. forming embankment	.15	.16	.11	.15	.15	.12
3,500	cu. yds. lining	1.50	1.75	1.50	1.50	1.50	1.50
320	cu. yds. puddle	1.50	1.65	1.50	1.50	1.50	1.50
815	M. ft. B. M. sawed lumber (yellow pine or Douglas fir)	55.00	62.00	55.00	55.00	55.00	55.00
11	M. ft. B. M. sawed lumber in needles (yellow pine)	100.00	115.00	100.00	100.00	100.00	100.00
50	M. ft. B. M. creosoted lumber	70.00	75.00	70.00	70.00	70.00	70.00
815	M. ft. white oak lumber	100.00	110.00	100.00	100.00	100.00	100.00
106,300	lin. ft. foundation piles 12-30 ft. long	.25	.28	.25	.25	.20	.25
8,000	lin. ft. mooring piles, 20 ft. long	.30	.35	.30	.30	.15	.30
194	M. ft. B. M. wooden sheet piling	50.00	56.00	50.00	50.00	60.00	50.00
34,530	cu. yds. second-class concrete	7.00	7.50	6.00	7.00	6.75	6.30
2,160	cu. yds. reinforced concrete	12.00	13.50	12.00	11.00	14.00	12.00
15	cu. yds. first-class masonry bridge coping	30.00	35.00	30.00	30.00	30.00	36.00
77,800	cu. yds. wash wall	2.00	2.40	2.00	2.40	2.40	2.20
2,450	sq. yds. second-class stone paving	1.50	1.75	1.50	1.50	1.80	1.50
950	cu. yds. second-class riprap	2.50	2.95	2.50	2.50	2.50	2.50
1,236,000	lbs. structural steel	.045	.05	.042	.045	.045	.042
217,000	lbs. metal reinforcement	.035	.035	.035	.035	.035	.03
1,470	lbs. wrought iron	.04	.04	.04	.04	.04	.04
11,760	lbs. steel castings	.045	.05	.045	.045	.045	.045
8,950	lbs. iron castings (machined)	.05	.055	.05	.05	.05	.05
720	sq. ft. Portland cement sidewalks	.15	.17	.15	.15	.15	.15
800	lin. ft. stone curbs	.40	.45	.40	.40	.40	.40
380	sq. yds. paved gutters	1.00	1.10	1.00	1.00	1.00	1.00
1,270	sq. yds. macadam pavement	.60	.70	.60	.60	.60	.60
810	sq. yds. wooden pavement, 2¾ ins. thick	2.75	3.00	2.75	2.75	2.75	2.75
1,180	sq. yds. wood-block pavement	2.75	3.00	2.75	2.75	2.75	2.75
4,780	lin. ft. wooden fence	.20	.20	.20	.20	.20	.20
70	lin. ft. wrought-iron pipe railing	1.00	1.15	1.00	1.00	1.00	1.00
770	lin. ft. lattice railing	1.75	2.00	1.75	1.75	1.75	2.00
220,000	lbs. metal in lock gates	.055	.06	.055	.055	.055	.055
85,000	lbs. metal in buffer beams	.055	.06	.055	.055	.055	.053
34,000	lbs. metal in lock valves	.09	.10	.09	.09	.09	.09
	For maintaining Highway traffic (lump sum)	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00
	Bailing and draining, including cofferdams and pumping (lump sum)	6,500.00	7,000.00	6,500.00	6,000.00	6,500.00	6,500.00
	Deduct price to be paid to the State of New York for buildings in place, which are to be removed by the contractor without expense to the state (lump sum)	3,800.00	3,800.00	3,400.00	3,800.00	3,800.00	.....
	Totals	$1,312,814	$1,424,747	$1,163,126	$1,327,842	$1,431,865	$1,240,123

MANUFACTURING PLANTS.

(Continued from page 6.)

225 Fifth Ave. M. C. Sternback, Pres. This will be a brick and bluestone building, two stories high, about 52 × 140 ft., and will cost $40,000.

Plans have been filed with the Department of Buildings, Boro. of Queens, by the Palmer & Singer Mfg. Co., 1618 Broadway, New York, for an automobile manufactory and garage, to be built at Long Island City on the south side of Webster Ave., between Second and Third Aves. It is to be a 3-story brick structure, with concrete floors and will be semi-fireproof throughout. Its cost will be about $100,000.

An automobile factory will be erected on the north side of the Plaza, 300 ft. on Radde and Prospect Sts., Long Island City, by Brewster & Co., Broadway and 47th St., New York. This building will be built of brick, stone and reinforced concrete, will be six stories high, 345 × 200 ft. Stephenson & Wheeler, 18 West 27th St. New York, are Archs.

ST. JOHNSVILLE, N. Y.—Press reports state that erection of a new building, 80 × 100 ft., is intended by the Royal Gem Mills Co., of St. Johnsville. When it is completed it will enable the company to double its capacity. The output of the concern consists of women's and misses' ribbed cotton underwear.

NIAGARA FALLS, N. Y.—The United States Lighting & Heating Co., recently incorporated with a capital of $17,500,000, with general offices at 30 Church St., New York City, has decided to locate its principal plant here for the manufacture of storage batteries, car lighting and heating devices, and will erect extensive buildings, in which will be combined the plants of the National Storage Battery Co., Buffalo; the Bliss Electric Car Lighting Co., Milwaukee, and the Moskowitz Car Lighting Co., New York City, these companies having been taken over and merged by the newly incorporated company. J. Allen Smith is Gen. Mgr.

CAMDEN, N. J.—Ballinger & Perrot, Archs., 1200 Chestnut St., Philadelphia, have awarded a contract to the ROYDHOUSE-AREY CO., Fidelity Bldg., for the erection of a 6-story addition, 135 × 174 ft., to the plant of the Victor Talking Mechine Co. in Camden.

HAZLETON, PA.—Ballinger & Perrot, Archs., 1200 Chestnut St., Philadelphia, have awarded a contract to GEORGE W. BEARD & CO., INC., for an addition to the silk manufactory of the Duplan Silk Co., Hazleton, Luzerne County, Pa. The new building will be 77 × 59 ft., one story in height. The walls will be of brick construction, and the columns and girders of slowburning wood construction.

SHARON, PA.—WILLIAM B. SCAIFE & SONS, 221 First Ave., were lowest bidders for the construction of the extension to the Driggs-Seabury ordinance plant in this city and were awarded the contract on June 21. The work will be started at once and will require two months for completion. The addition will increase the capacity of the machine shop 50%.

ROANOKE RAPIDS, N. C.—Samuel F. Patterson, of Roanoke Rapids, N. C., has announced that a mill will be located at Roanoke Rapids, which will have an equipment of 22,000 spindles and 750 looms for manufacturing ginghams, the entire plant to cost about $650,000. The company will be incorporated as the Patterson Mills Co. by Mr. Patterson, Gen. Mgr. and Treas. of Roanoke Mills Co. and Treas. of Rosemary Mfg. Co., both cotton mill enterprises at Roanoke Rapids; W. M. Habliston, Pres. of the National Bank of Virginia; Charles Cohen, of M. Cohen, Sons & Co., and T. C. Williams, each of Richmond, Va. This new company will erect a main building two stories high, 608 ft. long by 104 ft. wide, with saw-tooth-roof construction over the weaving. It will build a picker room also, 50 × 100 ft., a dye house, a boiler house, a room for fire pumps and heating apparatus, 90 2-story cottages for operatives and six dwellings for overseers. Electricity will be the power throughout. Lockwood, Greene & Co., 93 Federal St., Boston, Mass., have been engaged as Archs.-in-Charge.

MORRISVILLE, N. C.—S. R. Horne, of Morrisville, N. C., is planning to establish a hosiery knitting mill, and may invest from $25,000 to $30,000 in the enterprise. He contemplates erecting a building large enough to accommodate 100 knitting machines but intends to begin manufacturing with 30 to 40 machines. A gasoline engine will be used for power.

ALBEMARLE, N. C.—A cotton mill is to be erected at Albemarle by the Efird Mills Co. It will be a building of two stories, 100 × 350 ft., with a basement of 50 × 300 ft. Both spindles and looms will be installed, although the latter may not be put in at once. The cost of the mill and equipment will be approximately $250,000.

COLUMBUS, GA.—The Columbus Mfg. Co., of Columbus, Ga., will enlarge its plant. In order to provide funds, the company will increase its capital stock from $300,000 to $400,000 and issue bonds for $300,000. Lockwood, Greene & Co., 93 Federal St., Boston, Mass., will plan the improvements, which will call for a 272-ft. addition to the present 4-story, 128 × 282 ft. building of the plant. Probably 20,000 spindles and 600 looms will be the first installation.

CORDELE, GA.—Plans have been completed for a paper mill to be erected at Cordele by the Southern Cotton Stalk Pulp & Paper Co., of which Wm. E. McMillan, of Atlanta, is Pres. The company's capital is $500,000.

MEMPHIS, TENN.—Work is to begin at once on a concrete loft building which will cost $50,000 and which will be ten stories in height. It will be erected by Charles Loridanz, Atlanta, Ga., and located at the corner of Main St. and McCall Pl. Each floor or story will be completely equipped for a small manufactory. Motive power for the entire plant will be supplied by the management of the building.

LOUISVILLE, KY.—We are officially advised that the plans and specifications for the manufacturing plant of B. F. Avery & Sons, 15th and Main Sts., Louisville, Ky., now being prepared by George M. Brill, Engr., 1134 Marquette Bldg., Chicago, Ill., will be completed and ready for bids July 7. Bids will be received on the buildings, including electric power plant, erected complete, also on the several distinctive parts, as follows: Excavating, grading and concrete work; brick work, cut stone and terra cotta; timber and carpenter work; mill work; steel work and railings; cast-iron work; roofing; sheet-metal work; painting and glazing. There are eleven buildings, with a total floor area of nearly ten acres.

PIQUA, OHIO.—Work will commence soon on a new 5-story concrete building for the Superior Underwear Co., Piqua. The equipment of the present mill consists of 30 knitting and 60 sewing machines.

BREWSTER, OHIO. — WESTINGHOUSE, CHURCH, KERR & CO., 10 Bridge St., New York, have secured contract to erect a locomotive plant at Brewster, at a cost of $200,000, according to the Massillon (Ohio) "Independent." The contract has been let by the Wheeling & Lake Erie R. R. Co. Besides the shops, which are expected to be finished in September, a coal tipple, repair shop and storehouse will be located there. B. A. Worthington, Cleveland, Ohio, is Receiver.

MILWAUKEE, WIS.—C. D. Crane, Arch., 56 University Bldg., Milwaukee, has awarded the general mason contract for the manufacturing building to be erected on Chicago St., between East Water St. and Broadway, for Frederick W. Sivyer, to WILLIAM WINTER, 1025 Second St., Milwaukee. Steel-concrete (reinforced) construction will be used, with stone and terra cotta trimmings. The structure will be seven stories high, 94 × 150 ft. Cost, $135,000.

WAUSAU, WIS.—In a report, published June 17, of the award of contracts for the proposed plant of the Marathon Paper Mills Co., an error was made in the names of the architects. The O'Keefe-Orbison Engineering & Construction Co., of Appleton, Wis., are Archs.

BILLINGS, MONT.—The Russell-Miller Mining Co. has announced that work on the new Billings mill of the company will begin at once.

BONHAM, TEX.—The Bonham Cotton Mills, Bonham, Tex., will build an addition, 400 ft. long, adjacent to the present building. This structure will be provided with additional machinery. It is understood that some improvements will be instituted at a cost of $50,000. It operates 12,000 ring spindles and 352 looms on light sheeting. J. C. Saunders is Treas. and Gen. Mgr.

DENVER, COLO.—Shops will be built by the Pullman Co., near the Burnham shops of the Denver & Rio Grande, this year. Frederick E. Beck is Mgr. of the Pullman Co., Denver.

ABERDEEN, WASH.—Henry Goldwater, of Oakland, Cal., intends to invest $50,000, in addition to machinery, and is remodeling of the box plant of the Aberdeen Box Co., which he has purchased.

BELLINGHAM, WASH.—The E. K. Wood Lumber Co. will begin at once the erection of its electric planing mill.

ESTACADA, ORE.—See item under Light and Power Plants.

LOS ANGELES, CAL.—J. A. Bauer has purchased property fronting on the Santa Fe R. R., and will erect a pottery factory on the property at once.

MISCELLANEOUS CONTRACTS.

(*denotes that this work is advertised in Engineering News.)

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DITCH.—De Smet, S. Dak.—Bids will be received by P. A. Carroll, County Audr., until July 7 for constructing a drainage ditch 17,919 ft. in length.

DREDGING.—Detroit, Mich.—Bids will be received by Col. C. McD. Townsend, Corps Engrs., U. S. A., until July 12 for dredging at Bar Point Shoals, Detroit, River.

DITCH.—Crookston, Minn.—Bids will be received by H. J. Welte, County Audr., until July 8 for digging and constructing county ditch No. 72. Estimated cost, $16,821.

*DREDGING.—Galveston, Tex.—Bids are asked until noon, July 31, by Capt. John C. Oakes, Corps Engrs., U. S. A., for redredging Texas City Channel, Tex.

IRON RAILINGS.—New York, N. Y.—Bids are asked by the Department of Parks until 3 p. m., July 8, for furnishing and erecting iron railings around the grass plots in Broadway, between 82d and 92d Sts.

WHARF.—Ft. Morgan, Ala.—Bids will be received until July 9 by Capt. H. B. Chamberlin, Constructing Q. M., U. S. A., Ft. Morgan, for repairs to wharf and placing riprap at this post.

*HYDRAULIC JACKS.—Chicago, Ill.—Bids are asked by the Board of Trustees, Sanitary District of Chicago, until noon, July 14, for furnishing and installing hydraulic jacks.

*LOCK PIT.—Detroit, Mich.—Bids are asked until 3 p. m., July 28, by Lieut.-Col. C. McD. Townsend, Corps Engrs., U. S. A., for excavating a lock pit at St. Mary's Falls Canal, Mich.

FIRE ENGINE.—Washington, D. C.—Bids are asked until 2 p. m., July 7, by the Commissioners, District of Columbia, for furnishing one second-size double-acting steam fire-engine.

SPRINKLING OIL.—New York, N. Y.—Bids are asked by the Department of Parks until 3 p. m., July 15, for furnishing and delivering 1,000 bbls. of emulsifying road sprinkling oil for Prospect Park, Boro. Brooklyn.

DITCH.—Ft. Wayne, Ind.—Bids will be received until July 3 by D. F. Spindler, Supt. of Drains, for constructing the Page Ditch in Cedar Creek Township; the Griswold Ditch in Washington Township, and the Rorick Ditch in Marion Township.

DITCH.—Des Moines, Iowa.—Bids will be received until July 8 by H. B. Frase, County Audr., for constructing a ditch containing 3,765 ft. of 16-in., 1,435 ft. of 14-in. and 9,800 ft. of 10-in. tile.

BALLAST.—Fort Leavenworth, Kan.—Bids are asked until 11 a. m., July 14, by Capt. William D. Davis, Q. M., for furnishing and delivering in good condition f. o. b. cars freight prepaid, 2,187 cu. yds. ballast for U. S. railway terminals at Fort Leavenworth, Kan.

SPRINKLING OIL.—New York, N. Y.—Bids are asked until 3 p. m., July 8, by the Park Board, Henry Smith, Pres., for furnishing and delivering 10,000 bbls. of emulsifying road sprinkling oil for parks in the Boro. of Manhattan.

RUBBER HOSE.—New York, N. Y.—Bids are asked until 10.30, July 7, by Nicholas J. Hayes, Fire Comr., for furnishing and delivering 1,800 ft. of 2½-in. rubber hose for volunteer companies at Newtown, Boro. of Queens.

DREDGE.—Quincy, Ill.—Bids will be received until July 7 by the Board of Commissioners, Ivy Island Levee Drainage Dist., at Quincy, for furnishing and delivering a dipper dredge with a 2½-cu. yd. dipper on a 70-ft. boom, with a hull 40 ft. wide and 100 ft. long. W. P. Bushnell, Ch. Engr.

*DREDGING.—New York, N. Y.—Bids were received by Col. S. W. Roessler, Corps Engrs., U. S. A., on June 24, for dredging in Bay Ridge and Red Hook channels, New York Harbor. Lowest bidders were: Morris & Cumings, 17 State St., New York, at 16.85 cts. per cu. yd.

IRON RAILINGS.—New York, N. Y.—Bids were received on June 25 by the Department of Parks, for furnishing and erecting iron railings around the grass plots in Broadway, between 72d and 82d Sts., Boro. of Manhattan. Lowest bidders were Clarke & Stone, 221 Greenpoint Ave., Brooklyn, at $14,900.

PAINTING FERRYBOATS.—New York, N. Y.—Bids were received by the Department of Docks and Ferries June 22 for Contract No. 1177, for furnishing all the labor and materials required for preparing for and painting the hulls of the municipal ferryboats. Lowest bidders were Jas. Showan & Son, foot Houston St., East River, at $17,593.

PIER.—New York, N. Y.—Bids were received on June 25 by the Department of Docks and Ferries, for Contract No. 1181, for furnishing all the labor and materials required for preparing for and building a new pier at the foot of Jamaica Ave., Astoria, Boro. of Queens. Lowest bidder was the Phoenix Construction Co., 41 Park Row, at $11,897.

SAND, CEMENT.—Leavenworth, Kan.—Bids are asked by R. V. La Dow, Supt. Prisons, Dept. of Justice, Washington, D. C., until 10 a. m., July 2, for furnishing and delivering at the U. S. Penitentiary, Leavenworth, Kan., 10,000 cu. yds. of best Kaw River sand, and 10,000 bbls. of Portland cement and 10,000 bbls. of natural cement.

*SEAWALL.—New York, N. Y.—Bids were received on June 25 by Col. S. W. Roessler, Corps Engrs., U. S. A., for completing the seawall and containing embankment construction at Governor's Island, New York Harbor. Lowest bidder was the Morris & Cumings Dredging Co., 17 State St., at 38 cts. per cu. yd. for riprap, 21 cts. for masonry and 18⅔ cts. for material for embankment.

RETAINING WALLS.—New Brighton (S. I.), N. Y.—Bids were received by George Cromwell, Pres. Boro. Richmond, on June 22, for constructing retaining walls and appurtenances on Jay St. and South St., being part of the street improvements authorized for the approaches to the St. George Ferry, together with all work incidental thereto. Lowest bidder was the Ferro-Concrete Contracting Co., 1 Madison Ave., New York, at $72,625.

EARTH-WORK, EXCAVATION, ETC.—Denver, Colo.—The Kenefick-Quigley-Russell Construction Co., 236 Equitable Bldg., Denver, Colo., wish to sublet the following work: Near Laramie, Wyo.:—200,000 cu. yds. earthwork in dam, grader or wagon work; 550,000 cu. yds. earth excavation in intake canal, Page bucket or dredge work; 1,750,000 cu. yds. in distributing canals, team work, can be done with scraper or cast out with graders; 2,500 cu. yds. concrete. Near Denver:—512,000 cu. yds. earth in dam, steam shovel or grader work; 1,250,000 cu. yds. in distributing canals, team work, can be done with scraper or cast out with graders; 250,000 cu. yds. sand pump or suction dredge work; 25,000 cu. yds. concrete; 120,000 lin. ft. sheet piling.

U. S. POSSESSIONS.

LUMBER.—Panama.—The Isthmian Canal Commission has awarded contract for the purchase of about 2,800,000 ft of Douglas fir lumber to W. R. GRACE & CO., 614 California st, San Francisco, at their bid of $53,900.

DYNAMITE.—Panama.—The Isthmian Canal Commission has awarded a contract to the KEYSTONE POWDER MANUFACTURING CO., of Emporium, Pa., for furnishing between 9,000,000 and 10,000,000 pounds of dynamite, deliveries on the Isthmus to begin about Sept. 15. The amount of the contract is $1,107,232. List of bids received was given on June 10.

CABLE.—Panama.—Bids were received as follows on June 22, by the Isthmian Canal Commission, Washington, for furnishing 339,000 ft of copper cable for electrical purposes: General Electric Co., Schenectady, N. Y., $41,832; National Cable and Conduit Co., New York, $38,034; United States Steel Products Export Co., 30 Church st, New York, $40,757; Wesco Supply Co., St. Louis, $39,312; Western Electric Co., 364 West st, New York, $39,698; American Electric Works 165 Broadway, New York, $38,842; National Electric Supply Co., Washington, $40,320; John A. Roeblings' Sons, Trenton, N. J., $40,958.

CANAL, ETC.—Porto Rico.—Bids were received at the office of B. M. Hall, Ch. Engr., Porto Rico Irrigation Service, at Guayama, P. R., on June 14, for construction of about 24 miles of Patillas main canal with appurtenant structures, etc. Estimated cost, $155,000. Lowest bidders were as follows: Arturo Ydrach, Ponce, P. R., on schedule No. 3, at $14,345; No. 4 $7,273; No. 5, $7,940; No. 6, $9,615; No. 7, $8,927; No. 8, $10,740; No. 9, $14,110; No. 10, $9,490; No. 11, $39,910; No. 13, $3,700; No. 14, $16,053; No. 15, $5,910. Nerea Pirazzi, Ponce, P. R., was lowest bidder on No. 12, at $8,520. A. Fantauzzi, Arroyo, P. R., was lowest bidder on Schedule No. 1, at $8,950; and No. 2, at $7,145.

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

CONCRETE SEWER BLOCKS.—St. Louis, Mo.—Paul Swartz, 3857 Westminster Place, writes us for information regarding concrete sewer and grain tile.

WATER TANK INDICATORS.—Newman, Cal.—Charles E. Sloan, Town Engr., desires to locate manufacturers of electrically operated indicators for water tanks.

PIPE AND PIPE FITTINGS.—Oxford, N. C.—P. H. Montgomery desires to get in touch with manufacturers of various kinds of pipe and pipe fittings for water-works.

ASPHALT PLANT.—Portland, Ore.—The Cascade Contract Co., 567 Sherlock Bldg., Portland, desires to purchase an asphalt plant with a capacity of from 1,200 to 2,000 sq. yds. of paving a day.

CULINARY EQUIPMENT.—Jackson, Miss.—John T. Willis, Supt. Bldg. Const., advises us that he desires to communicate with manufacturers of ovens, steam cooking utensils, hotel ranges, ice-making plants, etc.

HOISTING EQUIPMENT. — Chattanooga, Tenn.—The Patten Mfg. Co. write us for catalogs and price lists on derrick irons, winches, crabs, bottom dump buckets, dump cars, engines and boilers for hoists.

FLUME PIPE.—Baker City, Ore.—We are in receipt of a latter from Parrott, Cotirell & Parrott, stating that they are in the market for half-round galvanized iron fluming and desire the names of manufacturers of the same.

CONCRETE BLOCK MACHINERY.—Mexico.—We are in receipt of a letter from Pinckney Ellis, C. E., April 7, Tampico, Tams, Mexico, requesting that he be put in communication with manufacturers of concrete block machines.

EXAMINATIONS.

DESIGNER.—Philippines.—The U. S. Civil Service Commission announces that applications will be received for consideration in connection with filling vacancies in the position of Designer of Bridges and Buildings of steel and reinforced concrete, in the Philippine Service, at a salary of $1,800 to $2,000 per year, according to qualifications. For this position not less than four years' experience in responsible positions is requisite (three years if the applicant is a technical school graduate), of which at least one year must have been in the class of work above specified. Age limit, 21 to 40 years. Application forms 2 and 375. Applications must be filed prior to closing hour on July 21.

LABORATORY HELPER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 14 to secure eligibles from which to make certification to fill vacancies which are constantly occuring in the position of Laboratory Helper, $600 per year, in the Bureau of Chemistry, Dept. of Agriculture. Chemical laboratories are located in the following-named cities: Washington, D. C., Nashville, New York, Chicago, Boston, Philadelphia, New Orleans, San Francisco, St. Paul, Buffalo, Detroit, Kansas City, Denver, Galveston, Portland, Ore., Savannah, Seattle, Cincinnati, St. Louis, Omaha, and Pittsburg. Age limit, 18 years. Application form 1312. Applications must be filed prior to closing hour on July 3.

INDUSTRIAL NOTES.

THE MARQUETTE CEMENT MFG. CO., La Salle, Ill., informs us that on July 1 it will retire the balance of its bonded debt, taking the funds from accumulated net earnings.

THE B. F. STURTEVANT CO., Boston, Mass., announces that removal of its New York offices from Engineering Building, 114 Liberty St., to 50 Church St., Rooms 1668-1670.

THE INDEPENDENT PNEUMATIC TOOL CO., Chicago, has removed its offices from the First National Bank Bldg., to the new "Thor" Bldg., at 1307 Michigan Ave., Chicago.

THE CHAPMAN VALVE MFG. CO., Indian Orchard, Mass., has issued $300,000 of additional preferred stock for purposes, it is stated, of improving the present plant and product, rather than any extension of the works.

CONDRON & SINKS, Civil Engineers, 1214 Monadnock Block, Chicago, announce that they have discontinued their connection with the Corrugated Bar Co., and will devote their attention exclusively to professional engineering.

THE MURPHY IRON WORKS announces that their New York office has been removed to Room 1671, Hudson Terminal, 50 Church St. Mr. H. W. Canning, formerly representing this company in Birmingham, will be in charge as District Manager.

THE KEYSTONE DRILLER CO., of Beaver Falls, Pa., has made shipment of seven large double stroke geared deep well pumps, for the town of Zacatecas, Mexico. The pumps are part of a million-dollar water supply plant for the city which is being installed by the Government of Mexico.

MR. ARTHUR MASTERS, formerly Assistant Superintendent of the Crescent Shipyard and for the last few years consulting engineer for the Panama R. R. Co. and Isthmian Canal Commission, has been appointed salesman in the Railroad Department of the U. S. Metal & Mfg. Co., of New York City.

HERBERT S. CROCKER, M. Am. Soc. C. E., and MILO S. KETCHUM, M. Am. Soc. C. E., announce that they have formed a partnership under the firm name of Crocker & Ketchum, consulting engineers, with offices at Suite 438, 811 17th St., Denver, Colo. The firm is a representative of the American Bureau of Inspection and Tests.

ERNST WIENER CO.—Mr. Walter J. Briggs has resigned as director, Secretary and Treasurer and no further connections exist between him and the company. Mr. Arthur P. Van Schaick, President of the W. K. Kenly Co., has become a director and Second Vice-President of the Ernst Wiener Co., with headquarters in Chicago, Ill.

THE CONTRACT for placing the concrete piles in the foundations of the Denison-Harvard viaduct at Cleveland, has been awarded to the RAYMOND CONCRETE PILE CO., of New York and Chicago. The viaduct will span a stretch of low land situated on the outskirts of Cleveland. A. M. Felgate is the county bridge engineer and the Concrete Steel Construction Co. the general contractor.

THE ELECTRIC FIREPROOFING CO., 19th St. and East River, New York, has received the contract for the fireproofing of all the wood that is to be used in the construction of the new Ritz Carlton Hotel on Madison Ave., and 46th and 47th Sts., New York. The company has furnished recently all the fireproofed woodwork entering into the Everett Bldg., on Union Sq., as well as all the woodwork entering into the Farmer's Loan & Trust Co. Bldg., in William St., New York.

THE BARRON & COLE CO., 127 Franklin St., New York City, has been incorporated to succeed James S. Barron, who for the past two years has been Eastern and export agent for the 20th Century Grader and sole agent for the Peerless Pick-up Hand Sweeper. The company are now Eastern agents for the Petrolithic Road Co., of Los Angeles, Cal., and headquarters for Nims Concrete Machinery. The officers of the company are Parker U. Cole, Pres. and Sales Mgr. and James S. Barron, Treas. and Gen. Mgr.

THE H. W. JOHNS-MANVILLE CO., New York, has taken the selling agency in the United States and Canada for the products of the American Hair Felt Co., which includes hair felt for all purposes. Baeder, Adamson & Co., Philadelphia, Pa., having discontinued the sale of hair felt. Henry J. Bellman, who for many years was connected with that branch of their business, has been appointed Manager of the hair felt department of the H. W. Johns-Manville Co., with headquarters at 100 William St., New York.

THE DEPARTMENT OF WATER SUPPLY of the City of New York has been supplied with three 1,500-ft. portable drilling machines by the Keystone Driller Co., of Beaver Falls, Pa. The machines are to be used for putting down wells on Long Island for the water supply of the Borough of Brooklyn. The rigs are the same as the regular No. 15 Oil Rig, except that the boiler, which is mounted on a separate truck and located at a distance for oil and gas drilling, is in this case mounted on the machine.

THE STOCKHOLDERS of the Berger Mfg. Co., Canton, Ohio, voted unanimously at a special meeting, June 19th, 1909, to increase the capital stock from $2,000,000 to $5,000,000. The purpose of this increase is to provide for additions, extensions and improvements to keep pace with the growing demand for their various products. A larger output will be secured and the volume of business greatly increased. One of the first improvements will be the erection and enlargement of warehouse and shipping facilities, so that all orders may be promptly executed and a much more complete stock carried at all times.

THE GULICK-HENDERSON CO., inspecting engineers of Pittsburg, Chicago and New York, announces that it has retained Samuel E. Duff, Consulting Engineer, of the Empire Bldg., Pittsburg, Pa., to advise and direct the company inspectors in matters of engineering, erection and fabricating shop methods.

Mr. Duff will continue his general engineering practice in his Empire Bldg. office, and will also be represented at the Chicago and New York offices of Gulick-Henderson Co. The latter office has recently been opened at Rooms 517-19, 30 Church St., with Mr. Henry Gulick in charge.

TRADE PUBLICATIONS.

TRACTION-ENGINE ATTACHMENTS.—Avery Co., Peoria, Ill. Various circulars; illustrated.

These circulars describe a lifting crane, steam shovel and crane, road roller and heavy hauling wagons, all designed and built for attachment to the undermounted traction engines made by this company.

RADIATORS.—Central Radiator Co., 37 Wall St., New York City. Paper; 3¼ x 5¾ ins.; pp. 24; illustrated.

Cast-iron radiators for steam and hot water are shown in this booklet. The illustrations of single, two, three and four-column radiators are accompanied by tables giving dimensions, heating surface and prices.

A NEW VALVE GEAR FOR LOCOMOTIVES. —The Pilliod Co., 1545 Old Colony Building, Chicago. Paper; 7 x 11 ins.; pp. 24; illustrated.

The Baker-Pilliod valve gear described in this pamphlet is an outside gear, operated from a return crank and the crosshead, and having no sliding parts or links. Valve diagrams and indicator diagrams are given, with particulars of tests, and the illustrations include views of a number of passenger and freight engines equipped with this gear.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 8.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Sealed proposals for the construction of a sewer known as Madison St. Sewer, Contract No. 47 of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, July 9th, 1909.

The work will consist mainly of building a vitrified pipe sewer from 15 ins. to 24 ins. in size, total length about 1,980 ft., and about 9 feet deep.

Sealed bids should be endorsed "Proposal for Madison St. Sewer" and addressed to the Commissioners of Sewerage, Equitable Bldg., Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

WATER MAINS.

Braintree, Mass.

Sealed bids, addressed to the Water Commissioners of Braintree, Mass., and endorsed "Proposal for furnishing and laying Water Pipe," will be received at the office of the Water Commissioners, Town Hall, Braintree, Mass., until 2 o'clock Wednesday, July 14, 1909, and at that time and place will be publicly opened and read. The work to be done consists principally in furnishing and laying 8,600 ft. of 8 inch C. I. Water Pipe with hydrants, special castings, etc., and involves carrying the pipe under or over the tracks of the N. Y., N. H. & H. R. R. Plans may be seen and specifications and forms of contract obtained at the office of the Water Commissioners after July 5, 1909. The commissioners reserve the right to reject any or all bids, or to accept any bid should they deem it for the interest of the town of Braintree so to do.

BOARD OF WATER COMMISSIONERS,
Braintree, Mass.

PIERS AND RAILROADS.

Johnson Co., Ky.

Sealed proposals will be received at the company's office, Fairmont, W. Va., for the grading and complete construction of four miles of railroad in Johnson County, Kentucky; also for concrete piers for bridge over Big Sandy River.

Plans, specifications and full information can be had at the company's office at Paintsville, Kentucky, or Fairmont, W. Va., after July 1st. Bids will be opened July 17th.

Full information upon application.
CONSOLIDATION COAL CO.,
J. G. SMYTH, Chief Engineer.

LAYING WATER PIPES.

COMMONWEALTH OF MASSACHUSETTS,
METROPOLITAN WATER AND SEWERAGE BOARD.

Sealed proposals will be received at the office of the Metropolitan Water and Sewerage Board, 1 Ashburton Place, Boston, Mass., until 2.30 o'clock P. M. of Monday, July 12, 1909, for laying 3,900 linear feet of 16-inch cast-iron water pipe in Revere, Mass.; also for laying 12,300 linear feet of 24-inch cast-iron water pipe in Everett, Chelsea and Revere, Mass. Plans for the work can be seen and pamphlets containing further information for bidders, forms of proposals, contract and specifications can be obtained at the office of the Chief Engineer, 1 Ashburton Place. The printed forms must be used in making proposals. The Board reserves the right to reject any or all bids or to accept the proposal deemed best for the Commonwealth. HENRY H. SPRAGUE, Chairman; HENRY P. WALCOTT, JAMES A. BAILEY, JR., Metropolitan Water and Sewerage Board. DEXTER BRACKETT, Chief Engineer of Water-Works. WILLIAM N. DAVENPORT, Secretary, Boston, June 28, 1909.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Sealed proposals for the construction of the Nineteenth Street Sewer, Contract No. 46 of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, July 16th, 1909.

The work will consist mainly of building about 2,770 feet of pipe and concrete sewer 20 in. to 33 in. in diameter in trench 6 to 12 feet deep and including 325 cu. yds. of concrete.

Plans and specifications may be seen at the office of the Commissioners.

Sealed bids should be endorsed "Proposal for Nineteenth Street Sewer" and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

MACADAMIZING.

Somerville, N. J.

The Board of Chosen Freeholders of Somerset County will meet at the Court House in Somerville, N. J., on

MONDAY, JULY 19TH, 1909,

at 10 a. m., to receive up to 11 a. m., and not after, bids for macadamizing 3,600 feet of road in Warren Township. Each bidder must accompany his bids with a certified check of $1,000.

The maps, profiles, specifications and blank bids can be seen at the office of the State Commissioner of Public Roads, State House, Trenton, N. J., and at the office of Joshua Doughty, Jr., Engineer, 22 Elm Avenue, Somerville, N. J.

By order of the Board of Chosen Freeholders of Somerset County.

THOMAS E. GIBSON,
Director.

June 29, 1909.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Sealed proposals for the construction of a sewer known as Section "D" of the Northwestern Sewer, Contract No. 48 of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, July 23d, 1909.

The work will consist mainly of building a reinforced concrete sewer 6 ft. and 6 ft. 3 in. in diameter, total length about 4,320 ft., and from 18 ft. to 21 ft. deep; and including about 2,350 cu. yds. of concrete, and 259,000 lbs. of steel.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Section 'D' Northwestern Sewer" and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

PUMPING ENGINES AND BOILERS.

READVERTISEMENT.
New York, N. Y.

Sealed bids will be received by the Board of Water Supply in Room 910 until 11 A. M., on July 20, 1909, for CONTRACT 39, for furnishing and installing two 12,500,000-gallon steam turbo-turbine pumps, two 225-HP. water-tube boilers and all accessories at Jerome Avenue pumping-station, Borough of The Bronx, New York City.

At the above place and time bids will be publicly opened and read. Pamphlets containing information can be obtained at Room 1510 by depositing $5 for each pamphlet.

JOHN A. BENSEL,
President,
CHARLES N. CHADWICK,
CHARLES A. SHAW,
Commissioners of the Board of Water Supply.
J. WALDO SMITH,
Chief Engineer.
THOMAS HASSETT,
Secretary.

Situations Wanted

C. E. STUDENT desires permanent position. Some experience at drafting; references. Address "K. A. 1," Engineering News, New York. 1-1t

MAN OF BROAD TRAINING, both executive and technical (mechanical, electrical and structural); well posted in modern practice and organization, desires position as mechanical superintendent, shop superintendent or other executive position where energy and ability will be appreciated; at present in West, but most of experience acquired in the East; can leave present position on 30 days' notice or earlier if absolutely necessary; age 38 years. Address "G. A. 1," Engineering News, New York. 1-1t

Situations Open

WANTED—First class man in cement stone works, and ornamental cement work. Call and see the undersigned promptly. W. R. CODINGTON, 152 Park Ave., Plainfield, N. J. 1-1t

RESIDENT ENGINEER WANTED to investigate foundations for high dam, organize construction camp and probably supervise large power development in West; experienced in hydroelectric and large concrete work; state age, experience, salary and date available. Address "L. A. 1," Engineering News, New York.

WANTED—Structural steel draftsmen, checkers, and detailers, for beams and column work; none but experienced men need apply. Address, stating experience and salary desired, P. O. BOX 563, Boonton, N. J. 1-2t

WANTED—Several experienced structural and ornamental draftsmen; permanent position for right one. HINKLE IRON CO., 534 West 56th St., New York. 1-1t

WANTED—Experienced structural detailers on steel columns and other steel work for buildings; applicants should state age, experience, salary expected and when they can report for work. Address RAVITCH BROS., Long Island City, N. Y. 1-2t

FOR SALE

A Level Bargain

FOR SALE.

Gurley 20" Wye Level Inv. $140.00. Philadelphia rod Inv. $12.00. Chain Inv. $6.00. All above including tripod and reel for $75.00 if taken in 15 days. Good condition guaranteed.

E. C. VAUGHN, Agt.,
1-1t 304 S. Limestone, Lexington, Ky.